

## **CURRICULUM VITAE**

### **Patricia E. Molina, MD, PhD**

**Current Title:** Richard Ashman, PhD Professor  
Head, Department of Physiology  
Director, Alcohol and Drug Abuse Center of Excellence  
Director, Comprehensive Alcohol-HIV/AIDS Research Center

**Business Address:** Department of Physiology  
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**Education:**  
Elementary/High School: Escuela Americana, San Salvador, El Salvador (1964 – 1976)  
Foreign Exchange: Lee High School, Baton Rouge, LA (1974 – 1975)  
Undergraduate: Universidad del Valle, Guatemala (BS, 1980)  
Graduate: Universidad Francisco Marroquín, Guatemala (MD, 1984)  
Internship: Hospital General San Juan de Dios, Guatemala  
Physiology, LSUMC, New Orleans (PhD, 1990)  
Postdoctoral: Vanderbilt University, Nashville, TN (1990 – 1992)

**Certification:** ECFMG, Certificate # 0-474-770-5

**Languages:** English, Spanish and French

**Academic, Professional, and Research Appointments:**

Hospital General San Juan de Dios, Guatemala City, Guatemala  
1983 – 1987 Rotational Clerkship

Universidad Francisco Marroquín, Guatemala City, Guatemala  
1985-1986 Research Associate

University of South Alabama, Mobile, AL  
1986-1987 Graduate Student, Department of Physiology

Louisiana State University, School of Medicine, New Orleans, LA  
1987-1990 Graduate Student, Department of Physiology

Vanderbilt University, Nashville, TN  
1990 – 1992 Research Instructor, Surgical Research

State University of New York, Stony Brook, NY  
1992 – 1996 Research Assistant Professor of Surgery & Molecular Physiology & Biophysics  
May–Sept. 1996 Research Associate Professor of Surgery & Molecular Physiology & Biophysics

North Shore University Hospital, Manhasset, NY  
1996 – 1999 Chief of Surgical Research

Brookhaven National Lab, Upton, NY  
1996 – 2000 Guest Scientist

Louisiana State University Health Sciences Center, New Orleans, LA  
1997 – 1999 Gratis Associate Professor  
1999 – 2004 Associate Professor  
2004 – Pres. Professor with Tenure  
2008 – Pres. Richard Ashman Professor, Department of Physiology  
2008 – Pres. Department Head of Physiology  
2008 – Pres. Director, Alcohol and Drug Abuse Center of Excellence

**Membership in Professional Organizations:**

American Physiological Society (President, 2015)  
Shock Society  
American Association for the Advancement of Science  
International Society for Neuroimmunomodulation  
Research Society on Alcoholism  
National Hispanic Science Network on Drug Abuse (Chair, 2010 – Pres.)  
Endocrine Society  
Society of Neuroimmunopharmacology  
Society for Leukocyte Biology  
Association for Women in Science (AWIS), Southern Louisiana Chapter

**Awards and Honors:***Institutional & Professional*

1989 Outstanding Graduate Student, Louisiana State University Medical School  
2008 – Pres. Richard Ashman Professor of Physiology, LSUHSC  
2001 – 2008 Honorary Consul General of El Salvador, New Orleans, LA

2009 Inaugural Lecturer, Universidad Francisco Marroquín Medical School  
 2009 Speaker, NIH National Hispanic Heritage Month Observance  
 2010 – 2012 Councilor, Association of Chairs of Departments of Physiology  
 2007 – 2010 Vice-Chair, National Hispanic Science Network on Drug Abuse (NHSN)  
 2010 – Pres. Chair, National Hispanic Science Network on Drug Abuse (NHSN)  
 2014 – 2016 Executive Board, American Physiological Society (President, 2015)  
 2015 Distinguished Service Award, APSelect (American Physiological Society)  
 2015 Nominated for the Association of American Physicians  
 2015 Named Fellow American Physiological Society (FAPS)  
 2016 Travel Award, NIAAA ISBRA R13 Travel Support for 2016 World Congress on Alcohol and Alcoholism in Berlin, Germany

*Teaching / Mentoring*

2016 Aesculapian Excellence in Teaching Award, LSUHSC  
 2012 Excellence in Mentorship Award, National Hispanic Science Network

*Community*

2007, 2015 Top Ten Female Achievers, New Orleans Magazine  
 2011 Louisiana Pathfinder Award  
 2011 Featured in Latinas in STEM careers, Latina Style Magazine

*National Committee Service*

2003 Organizer and Chair, Consensus Workshop: Allostatic Load and The Response to Injury and Trauma, National Institute of General Medical Studies Center  
 2012 – Pres. Member, National Advisory Council, National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism

**TEACHING EXPERIENCE AND RESPONSIBILITIES**

**Formal Course Responsibilities:**

1988 – 1989 Lectures: Physiology – Renal Physiology, Muscle and Parturition (9 h)  
 LSU Nursing  
 1989 Lectures: Physiology – Renal; Physiology and Acid – Base (6 h)  
 LSU Allied Health  
 1991 Preceptor for 1<sup>st</sup>/2<sup>nd</sup> year medical students; Introduction to Biomedical Research  
 Vanderbilt  
 1992 – 1996 Preceptor for Minority High School Summer Research Program  
 SUNY Stony Brook  
 1993 – 1996 Preceptor for undergraduate (EUREKA) and medical students (MD with distinction program)  
 SUNY Stony Brook  
 1994 – 1996 Summer Lecture Series: Introduction to Metabolic Research  
 SUNY Stony Brook, Division of Surgical Research  
 1996 Vitamin and Women’s Nutrition Lectures, 1<sup>st</sup> year Medical Nutrition Course  
 2000 Introduction to Clinical Medicine; GI; Back to Basics. Drs. Cassidy & Bagwell.  
 2<sup>nd</sup> year medical students (2 h)  
 2000 Graduate Cell Biology Course. Signal transduction and Cell signaling (2 h)  
 C. Hornick, Course Director  
 2001 Medical Physiology; Introduction to Endocrinology, Hypothalamus (3 h)  
 Course Director; H. Miller

2001	Alcohol Research Center Training Program, Alcohol and trauma (1 h) Gregory Bagby, Program Director
2001	Allied Health Physiology; Introduction to Endocrine (3 h); GI physiology (4 h) Gregory Bagby, Course Director.
2002 – 2003	Graduate Cell Biology Course. Signal transduction and Cell signaling (3 h) C. Hornick, Course Director Medical Physiology. Muscle Lectures (2 h & lab), Liver lectures (2 h), Endocrine introduction, hypothalamus, pituitary, thyroid, parathyroid, adrenal (7 h)
2003 – Pres.	Medical Physiology ANS and muscle (4 h), liver (3 h), endocrine (14 h)); Endocrine Physiology Review (2 h)
2003 – Pres.	Graduate Endocrine Physiology (Course Director & lecturer; 3 h credit)
2003 – 2005	Perspectives in Alcohol Research (Program Coordinator)
2005 – Pres.	Medical Spanish Elective (Course Director & Lecturer, 2 h credit, Spring)
2005 – Pres.	Perspectives in Alcohol Research Elective (Course Director & Lecturer; 1 h credit)
2005 – 2015	Endocrine block for Biological Systems (IDP program; Block director & lecturer)
2005 – 2015	Growth and Development, Aging Lectures (4 h), Dental students
2006 – 2012	Endocrine Pathophysiology (Lecturer Nursing and CARE programs 3 h/course twice a year)

### **Undergraduate, Graduate, and Medical Students Trained:**

#### *Undergraduate:*

2002 – 2003	Muñeca Slade
2004	Ze Zhang, (Undergraduate Summer Research)
2005	Rachel Rider
2006 – 2007	Tiffany Best
2008 – 2009	Tesslyn Land, Xavier University
2009	Chris Hakenjos
2011 – 2013	Emily Rogers
2012	Louis Monnig (Undergraduate Summer Research)
2012	Eric Stockwell (Undergraduate Summer Research)
2012	Laura Decker (Undergraduate Summer Research)
2013	Claire Franklin (Undergraduate Summer Research)
2013	Mohammed Elaasar (Undergraduate Summer Research)
2013 – 2015	Parth Thaker (Undergraduate Summer Research)
2014	Mentor of mentor for: Sarah Oberhelman (Undergraduate Summer Research)
2014	Mentor of mentor for: Zachary Melchiodo (Undergraduate Summer Research)
2014	Mentor of mentor for: Alana Williams (Undergraduate Summer Research)
2014	Mentor of mentor for: Olivia Leonovicz (Undergraduate Summer Research)
2015	Mentor of mentor for: Gabriela Squeo Medical Student Summer Research
2015	Mentor of mentor for: Gabe Navar (Undergraduate Summer Research)
2015	Mentor of mentor for: Jacob Elnaggar (Undergraduate Summer Research)
2015	Vienna Benavides (Undergraduate Summer Research)

#### *Graduate:*

2000 – 2001	Danielle Williams, Xavier University
2004 – 2008	Keisa Williams Mathis, MS, PhD Student, LSUHSC
2004 – 2005	Jaquelin Varela, PhD Student, LSUHSC
2007 – 2012	Annie Whitaker, PhD Student, LSUHSC
2007 – 2013	Jesse Sulzer, MD/PhD Student, LSUHSC

2008 – 2010 Edith Walker, PhD, LSUHSC  
 2011 – Pres. Sophie Teng, MD/PhD, LSUHSC  
 2013 – Pres. Whitney Nichols, MD/PhD, LSUHSC  
 2013 – Pres. Jacques Mayeux, MS, PhD, LSUHSC  
 2013 – Pres. John Maxi, PhD, LSUHSC  
 2015 Whitney Nichols, MD/PhD, LSUHSC  
 2015 – Pres. Allison Schreiber, MD/PhD, LSUHSC  
 2015 – Pres. Stephen Ford, MD/PhD, LSUHSC

*Medical:*

1992 – 2003 Khalil Yousef, MD, Stony Brook Surgical Resident  
 1994 Jeroen Meijerink, MD, PhD, Netherlands  
 1994 – 1996 Samuel Bundz, MD, Stony Brook Surgical Resident  
 1993 – 1995 Yoshiro Hashiguchi, MD, PhD, Japan  
 1995 – 1996 Saied Malek, MD, Baharain  
 1995 Shihab Khogali, MD, PhD, Scotland  
 1998 – 1999 Nasim Ahmed, MD, North Shore University Hospital  
 2002 – 2005 Diego Niño, MD  
 2005 O’Keith Dellafosse, Medical Student Summer Research  
 2005 Jeremy Daigle, Medical Student Summer Research  
 2012 Daniel Punecky, MD

**Postdoctoral and Post-Residency Fellows Trained:**

*Postdoctoral:*

2000 – 2001 Herbert Phelan, MD  
 2000 – 2003 Kirsten Zambell, PhD  
 2005 – 2007 Patrick Greiffeinstein, MD  
 2010 – 2015 Flavia Souza-Smith, PhD  
 2012 – 2014 Tracy Dodd, PhD  
 2012 – 2014 Megan Armstrong-Lipe, PhD  
 2012 – 2015 Paige Katz, PhD  
 2012 – Pres. Annie Whitaker, PhD  
 2014 – 2016 Christy Itoga, PhD  
 2015 – Pres. Karina Villalba, PhD  
 2015 – Pres. Anthony Duplanty, PhD

*Post-Residency:*

2015 – Pres. Sarah Jolley, MD, MSc, LaCaTS Roadmap Scholar, LSUHSC

**Additional Mentoring:**

*Highschool Students:*

2009 Sophie Giberga  
 2013 Jackie Spangenberg

*Junior Faculty:*

2015 – Pres. Frank Lau, MD, Assistant Professor of Clinical Surgery, LSUHSC (*as needed*)  
 2015 – Pres. Tracey Knaus, PhD, Assistant Professor of Clinical Neurology, LSUHSC

**RESEARCH AND SCHOLARSHIP**

**Grants and Contracts:**

**Active**

R13AA024974 NIAAA/NIH	03/01/16 – 02/28/17 \$15,000	0.0 calendar
Presidential Symposium: Physiological Processes Underlying Organ Injury in Alcohol Abuse, San Diego, April 2016 This grant provides support for the American Physiological Society (APS) Presidential Symposium 1 and the Translational Physiology Interest Group (TPIG) Featured Topic Session, featured at the 2016 Experimental Biology (EB) meeting.		
2 P60 AA009803 NIAAA/NIH	12/10/14 – 11/30/19 \$1,313,927 / year	2.4 calendar
LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center The LSUHSC-NO CARC is a multi-institutional, multidisciplinary team of scientists focused on understanding the interaction of alcohol use disorders (AUD) and HIV disease. Role: Principal Investigator/Director		
2 T32 AA007577 NIAAA/NIH	09/01/09 – 8/31/19 \$402,449 / year	0.0 calendar
Biomedical Alcohol Research Training Program The goal of this training program is to provide mentorship and focused training for MD and PhD pre and postdoctoral fellows so that they can develop careers in biomedical research in the alcohol field. Role: Principal Investigator/Program Director		
2 R13 DA026647 NIDA/NIH	06/01/09 – 05/31/19 \$93,000 / year	0.24 calendar
National Hispanic Science Network on Drug Abuse (NHSN) Annual Conference This grant supports the annual NHSN Conference which promotes bidirectional translational research ranging from bench to community and a trans-disciplinary cross-fertilization of ideas among scientists from all fields of drug abuse. Role: Principal Investigator		
5 U01 AA021995 NIAAA/NIH	09/15/12 – 8/31/17 \$399,332 / year	2.4 calendar
HIV / AIDS & Alcohol-Related Outcomes; Translational Evidence-Based Interventions The goal of this project is to develop and strategically test coordinated interventions to reduce alcohol use and alcohol-related consequences in HIV-impacted populations. Role: Principal Investigator		
5 R25 AA021304-03 (Gregory, Molina) NIAAA/NIH	04/05/12 – 03/31/17 \$86,896/year	0.20 calendar
Louisiana SURE Program This program supports ten undergraduate students to conduct hands-on research on alcohol related diseases during the summer. The goal of the program is to nurture the next generation of scientists who will participate in clinical and translational research on a major health issue. Role: Co-Investigator		
5 T35 AA021097-03 (Gregory, Molina) NIAAA/NIHA	01/04/12 – 03/31/17	0.0 calendar
Medical Student Alcohol Research Internship Role: Co-Investigator		

5 R21 AA022690 (Gardner) 08/01/14–07/31/16 0.24 calendar  
NIAAA/NIH  
Ethanol-Induced Cardiac Fibrosis and Dysfunction are Mediated by NADPH  
Role: Co-Investigator

**Complete**

R01 DA030053-05 07/01/10 – 02/29/16  
NIDA/NIH \$634,348 – NCE  
Cannabinoid Epigenomic and miRNA Mechanisms Impact HIV/SIV Disease Progression  
These studies explore the epigenomic (miRNA and DNA methylation) mechanisms involved in the anti-inflammatory effects and suppression of viral replication associated with prolonged survival in chronic THC-treated, SIV-infected animals.  
Role: Principal Investigator

W81XWH-11-2-0011 09/30/10 – 10/03/15  
Department of Defense  
Endocannabinoids as a Target for the Treatment of Traumatic Brain Injury  
The studies investigated the effectiveness of inhibitors of endocannabinoid degradation in improving outcome from traumatic brain injury. This approach has the advantage of using a substance that is normally produced by the body as a protective factor to improve brain function following injury without impairing learning and cognitive function.  
Role: Principal Investigator

P60 AA09803-19 (Nelson) 12/01/09 – 11/30/14  
NIAAA/MOJ  
Alcohol, HIV Infection and Host Defense  
The goals of the education portion of the ARC are to disseminate information related to alcohol abuse to the public and to foster interdisciplinary research efforts among scientists.  
Role: Academic Research Coordinator of Administrative Component

P20 GM103514-10 (Kapusta) 09/01/03 – 06/30/13  
NCRR/NIH  
Mentoring in Cardiovascular Biology  
Role: Mentor for trainees on the Cardiovascular COBRE.

R01 DA030053-03S1 06/01/12 – 08/01/12  
NIDA/NIH  
Summer Research with NIDA  
This project provided a training opportunity for an undergraduate student during a period of 8-10 weeks during Summer 2012.  
Role: Principal Investigator

P20 RR016816-06 (Bazan) 02/01/07 – 01/31/12  
NCRR/NIH  
Mentoring Neuroscience in Louisiana  
Role: Mentor for trainees on the Neuroscience COBRE.

R01 DA 020419-04S1 04/01/09 – 03/31/11  
NIDA/NIH  
Cannabinoid Effects on HIV/AIDS

The goal of the supplement was to perform serial gut biopsies in SIV-infected macaques that are treated with THC using animals in the ongoing studies.

Role: Principal Investigator

R01 DA020419-S3 04/01/09 – 03/31/11  
NIDA/NIH

Cannabinoid Effects on HIV/AIDS

The studies under this administrative supplement contrasted the responses of female and male rhesus macaques chronically treated with  $\Delta$ 9-THC prior to and during the course of SIV infection.

Role: Principal Investigator

3 R01 DA020419-02S1 08/10/06 – 03/31/11  
Cannabinoid effects on HIV/AIDS

NIDA/NIH

The goal of the study was to establish the impact of cannabinoids on progression of SIV infection in Chinese-derived rhesus macaques.

Role: Principal Investigator

W81XWH-06-1-0236 PR 054196 04/03/06 – 04/02/11  
Department of Defense

Alcohol intoxication Impact on outcome from traumatic injury

The goal of this project was to identify the central mechanisms involved in altered hemodynamic counterregulatory responses to hemorrhage during alcohol intoxication.

Role: Principal Investigator

R01 DA020419-04S2 06/20/09 – 09/31/09  
NIDA/NIH

This administrative supplement focused on minority science and research training. It created four positions and accelerated the pace of my scientific research; the specific purpose of these recovery act funds. Our summer research program brought together two science teachers, a high school student, and an undergraduate college student.

Role: Principal Investigator

R13 NIAAA00448747 09/01/08 – 08/30/09  
NIAAA/NIH

Training Directors Meeting LSUHSC 2009

The goal of this project was to organize the NIAAA Trainee and Program Director's workshop in New Orleans, LA.

Role: Principal Investigator

LSUHSC Translational Initiative 01/01/09 – 12/31/09

Translational Studies on the Consequences of Alcohol Intoxication on Outcome from Traumatic Injury

DHHS Office of Minority Health 01/01/09 – 08/31/09

Application to Practice: A National Videoconference Training Program

The focus of this project was to develop a videoconference training program to provide opportunities for interdisciplinary mentorship for graduate students and early career professionals involved in drug abuse research.

Role: Project Director



R01 NIAAA3543-05 07/01/02 – 06/30/09  
NIAAA/NIH  
Chronic Alcohol & AIDS Impact on Muscle Wasting  
The goals of the project were to dissect the mechanisms involved in the increase in muscle wasting observed during the progression of AIDS and how chronic alcohol administration alters their progression.  
Role: Principal Investigator

NSF(2008) PFund 103 04/01/08 – 03/31/09  
Board of Regents  
Target Mechanisms for Improved Outcome from Hemorrhage  
This project will investigate the feasibility of acetylcholinesterase inhibitors in improving the blood pressure response to shock in alcohol intoxicated rodents.  
Role: Principal Investigator

DA020419-02S2 06/1/08 – 08/01/08  
NIDA/NIH  
Summer Research with NIDA weeks during the summer of 2008.  
Role: Principal Investigator

R13 GM080954-01 (Kovacs) 06/01/07 – 05/31/08  
The goal of this project was to organize a satellite symposia at 2007 SHOCK Society meeting in Baltimore.  
Role: Co-Investigator/Organizer

1 U01 AA014293-01 (Nelson) 04/01/03 – 03/31/06  
Alcohol Research Planning and Development Program  
This project aimed to develop a research plan to enable Xavier University faculty to establish research programs. In addition, the education aspect focused on developing courses to better prepare pharmacy students to deal with drug-alcohol interactions.  
Role: Co-Investigator

NOO014-97-1-0248 02/01/97 – 01/31/06  
Neural Control of Hemorrhage-Induced Tissue Cytokine Production  
The goal of this project was to determine the time course, magnitude and tissue specificity of the alterations in pro-inflammatory cytokine and endogenous opiate concentrations induced by hemorrhage. In addition, to determine the role of the central nervous system in modulating the magnitude of these responses, with particular focus on the role of pain-related pathways.  
Role: Principal Investigator

Louisiana Health Excellence Fund 06/01/00 – 05/31/05  
Immunosuppression Following Trauma/Hemorrhage; Impact of Alcohol Intoxication  
The project goal was to establish a model of alcohol intoxication and soft tissue trauma with hemorrhage to identify the specific alterations in host defense that contribute to enhanced susceptibility to infection.  
Role: Principal Investigator, Project 3

R13 AA13578 10/01/01 – 09/31/02  
Alcoholism and Disease: Immune and Pathological Mechanisms

The goal of this project was to organize two symposia at the Experimental Biology meeting in New Orleans in 2002.

Role: Principal Investigator

R01 GM 50567 (Abumrad) 08/01/93 – 07/31/97

Surgery-Protein Breakdown and Endogenous Opiates

The goal of this project was to define the temporal changes in the responses of  $\beta$ -endorphin and non-peptide opioid alkaloids during the stress of surgery and trauma.

Role: Co-Investigator

R01 DK 42562S1 (Abumrad) 02/01/92 – 06/30/96

Proteolysis in Hypoglycemia – Impact of CNS.

The goal of this project was to examine the contribution of gut-derived proteolysis to the overall counterregulatory response to insulin-induced hypoglycemia.

Role: Principal Investigator, supplement for underrepresented minorities

Pilot and Feasibility Project 01/01/91 – 01/12/92

Clinical Nutrition Research Unit, Vanderbilt

These studies examined the contribution of alcohol-induced alterations in thiamine metabolism to the observed derangements in intermediary metabolism of alcoholics.

Role: Principal Investigator

Bell Memorial Fellowship 1990 – 1992 (declined due to relocation)

American Heart Association, Louisiana Chapter

Mechanisms of the Sepsis-Induced Splanchnic Hyperemia

The goal of this project was to investigate the contribution of glucagon to the enhanced splanchnic circulation during infection.

Role: Principal Investigator

## Publications:

### **Journal Articles (Refereed)**

1. **Molina PE**, Lang CH, Bagby GJ, D'Souza NB, Spitzer JJ. Ethanol administration diminishes the endotoxin-induced increase in glucose metabolism. *Alcohol Clin Exp Res.* 1989;13(3):407-412. PMID: 2665557.
2. Lang CH, **Molina PE**, Bagby GJ, Spitzer JJ. Chronic alcohol consumption prevents the sepsis-induced increases in gluconeogenesis and metabolic clearance rate. *Prog Clin Biol Res.* 1990;325:373-382. PMID: 2405404.
3. **Molina PE**, Lang CH, Bagby GJ, Spitzer JJ. Ethanol attenuates endotoxin-enhanced glucose utilization. *Am J Physiol.* 1990;258(4 Pt 2):R987-993. PMID: 2184686.
4. **Molina PE**, Lang CH, Bagby GJ, Spitzer JJ. Ethanol oxidation is not required to attenuate endotoxin-enhanced glucose metabolism. *Am J Physiol.* 1991;260(6 Pt 2):R1058-1065. PMID: 2058733.
5. Spitzer JJ, Bagby GJ, Bautista AP, D'Souza NB, **Molina PE**, Lang CH. Immunosuppressive effect of alcohol on hepatic parenchymal and nonparenchymal cell functions following endotoxin. *Adv Exp Med Biol.* 1991;288:255-264. PMID: 1659134.
6. Lang CH, **Molina PE**, Abumrad NN. Granulocyte colony-stimulating factor prevents ethanol-induced impairment in host defense in septic rats. *Alcohol Clin Exp Res.* 1993;17(6):1268-1274. PMID: 7509576.

7. Lang CH, **Molina PE**, Yousef KA, Tepper PG, Abumrad NN. Role of il-1 alpha in central nervous system immunomodulation of glucoregulation. *Brain Res.* 1993;624(1-2):53-60. PMID: 8252416.
8. **Molina PE**, Eltayeb K, Hourani H, Okamura K, Nanney LB, Williams P, Abumrad NN. Hormonal and metabolic effects of neuroglucopenia. *Brain Res.* 1993;614(1-2):99-108. PMID: 8348333.
9. Fan J, **Molina PE**, Gelato MC, Lang CH. Differential tissue regulation of insulin-like growth factor-i content and binding proteins after endotoxin. *Endocrinology.* 1994;134(4):1685-1692. PMID: 7511091.
10. Lang CH, **Molina PE**, Skrepnick N, Bagby GJ, Spitzer JJ. Epinephrine-induced changes in hepatic glucose production after ethanol. *Am J Physiol.* 1994;266(6 Pt 1):E863-869. PMID: 8023915.
11. **Molina PE**, Abumrad NN. Gut-derived proteolysis during insulin-induced hypoglycemia: The pain that breaks down the gut. *JPEN J Parenter Enteral Nutr.* 1994;18(6):549-556. PMID: 7602732.
12. **Molina PE**, Abumrad NN. Metabolic effects of opiates and opioid peptides. *Adv Neuroimmunol.* 1994;4(2):105-116. PMID: 7952827.
13. **Molina PE**, Hashiguchi Y, Ajmal M, Mazza M, Abumrad NN. Differential hemodynamic, metabolic and hormonal effects of morphine and morphine-6-glucuronide. *Brain Res.* 1994;664(1-2):126-132. PMID: 7895021.
14. **Molina PE**, Jabbour K, Williams P, Abumrad NN. Effect of acute ethanol intoxication on glucoregulation during prolonged insulin-induced hypoglycemia. *Am J Physiol.* 1994;267(5 Pt 2):R1280-1287. PMID: 7977855.
15. **Molina PE**, Myers N, Smith RM, Lang CH, Yousef KA, Tepper PG, Abumrad NN. Nutritional and metabolic characterization of a thiamine-deficient rat model. *JPEN J Parenter Enteral Nutr.* 1994;18(2):104-111. PMID: 8201744.
16. **Molina PE**, Tepper PG, Yousef KA, Abumrad NN, Lang CH. Central NMDA enhances hepatic glucose output and non-insulin-mediated glucose uptake by a nonadrenergic mechanism. *Brain Res.* 1994;634(1):41-48. PMID: 8156391.
17. **Molina PE**, Yousef KA, Smith RM, Tepper PG, Lang CH, Abumrad NN. Thiamin deficiency impairs endotoxin-induced increases in hepatic glucose output. *Am J Clin Nutr.* 1994;59(5):1045-1049. PMID: 8172089.
18. Petit F, Jarrous A, Dickinson RD, **Molina PE**, Abumrad NN, Lang CH. Contribution of central and peripheral adrenergic stimulation to il-1 alpha-mediated glucoregulation. *Am J Physiol.* 1994;267(1 Pt 1):E49-56. PMID: 8048512.
19. Yousef KA, Tepper PG, **Molina PE**, Abumrad NN, Lang CH. Differential control of glucoregulatory hormone response and glucose metabolism by nmda and kainate. *Brain Res.* 1994;634(1):131-140. PMID: 8156383.
20. Abumrad NN, Kim S, **Molina PE**. Regulation of gut glutamine metabolism: Role of hormones and cytokines. *Proc Nutr Soc.* 1995;54(2):525-533. PMID: 8524899.
21. Bundz S, **Molina PE**, Lang CH, Abumrad NN. Endogenous opiates do not modulate lps-induced alterations in carbohydrate metabolism. *Shock.* 1995;4(6):397-402. PMID: 8608395.

22. Hashiguchi Y, **Molina PE**, Abumrad NN. Morphine-3-glucuronide: Hyperglycemic and neuroendocrine potentiating effects. *Brain Res.* 1995;694(1-2):13-20. PMID: 8974636.
23. Hashiguchi Y, **Molina PE**, Abumrad NN. Modulation of metabolic effects of morphine-6-glucuronide by morphine-3-glucuronide. *Brain Res Bull.* 1995;38(4):325-329. PMID: 8535854.
24. **Molina PE**, Hashiguchi Y, Meijerink WJ, Naukam RJ, Boxer R, Abumrad NN. Modulation of endogenous opiate production: Effect of fasting. *Biochem Biophys Res Commun.* 1995;207(1):312-317. PMID: 7857282.
25. Molina PE, Fan J, Boxer R, Gelato MC, Lang CH, Abumrad NN. Modulation of insulin-like growth factor-i: A specific role for vitamin b 1 (thiamine). *J Nutri Biochem.* 1996;7(4):207-213.
26. Delman K, Malek SK, Bundz S, Abumrad NN, Lang CH, **Molina PE**. Resuscitation with lactated ringer's solution after hemorrhage: Lack of cardiac toxicity. *Shock.* 1996;5(4):298-303. PMID: 8721391.
27. Hashiguchi Y, **Molina PE**, Fan J, Lang CH, Abumrad NN. Central opiate modulation of growth hormone and insulin-like growth factor-i. *Brain Res Bull.* 1996;40(2):99-104. PMID: 8724426.
28. Hashiguchi Y, **Molina PE**, Preedy VR, Sugden PH, McNurlan MA, Garlick PJ, Abumrad NN. Central effects of morphine and morphine-6-glucuronide on tissue protein synthesis. *Am J Physiol.* 1996;271(3 Pt 2):R619-625. PMID: 8853383.
29. Meijerink WJ, **Molina PE**, Lang CH, Abumrad NN. Contribution of excitatory amino acids to morphine-induced metabolic alterations. *Brain Res.* 1996;706(1):123-128. PMID: 8720499.
30. Cersosimo E, Ajmal M, Naukam RJ, **Molina PE**, Abumrad NN. Role of the kidney in plasma glucose regulation during hyperglycemia. *Am J Physiol.* 1997;272(5 Pt 1):E756-761. PMID: 9176172.
31. Cersosimo E, **Molina PE**, Abumrad NN. Renal glucose production during insulin-induced hypoglycemia. *Diabetes.* 1997;46(4):643-646. PMID: 9075805.
32. Hashiguchi Y, **Molina PE**, Dorton S, McNurlan MA, Garlick PJ, Reddy D, Abumrad NN. Central opiate mu-receptor-mediated suppression of tissue protein synthesis. *Am J Physiol.* 1997;273(3 Pt 2):R920-927. PMID: 9321868.
33. **Molina PE**, Ding YS, Carroll FI, Liang F, Volkow ND, Pappas N, Kuhar M, Abumrad N, Gatley SJ, Fowler JS. Fluoro-norchloroepibatidine: Preclinical assessment of acute toxicity. *Nucl Med Biol.* 1997;24(8):743-747. PMID: 9428600.
34. **Molina PE**, Malek S, Lang CH, Qian L, Naukam R, Abumrad NN. Early organ-specific hemorrhage-induced increases in tissue cytokine content: Associated neurohormonal and opioid alterations. *Neuroimmunomodulation.* 1997;4(1):28-36. PMID: 9326742.
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#### In Press / Accepted for Publication

Simon L, Jolley S, **Molina PE**. Alcoholic myopathy: pathophysiologic mechanisms and clinical implications. *Alcohol Res*. \*Accepted 2016 March 31

#### **Journal Articles (Non-Refereed)**

1. **Molina PE**. Teenage Alcohol Use - Is It A Problem. *Jaynotes: The Magazine of Jesuit High School in New Orleans*. 2002:9-11.
2. **Molina PE**. Surviving Adversity and Embracing New Challenges. *Physiologist*. 2010;53(1):13-15. PMID: 20222498.
3. Barrett KE, **Molina PE**, Pollock DM. A Joy for (the Science of) Life! *Physiology (Bethesda)*. 2014;29(6):382-383. PMID: 25362630.
4. **Molina PE**, Pollock DM, Barrett KE. Physiology — Still the One! *Am Biol Teach*. 2014;76(9):572-573.
5. **Molina PE**. 88<sup>th</sup> President of the APS. *Physiologist*. 2015;58(2):63, 66-71. PMID: 26390772.
6. **Molina PE**, Horwitz B, Carey HV, Barman SM, Barrett KE, Reckelhoff JF. How Diversity is Becoming a Reality in the American Physiological Society. *Physiologist*. 2015;58(4):159, 161-156. PMID: 26434150.
7. Sandberg K, Umans JG. Recommendations Concerning the New U.S. National Institutes of Health Initiative to Balance the Sex of Cells and Animals in Preclinical Research. *FASEB J*. 2015;29(5):1646-1652. PMID: 25713032. \*Workgroup Participant

#### **Books**

- Molina PE. *Endocrine Physiology*. 1<sup>st</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2004.
- Molina PE. *Endocrine Physiology*. 2<sup>nd</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2006.
- Molina PE. *Endocrine Physiology*. 3<sup>rd</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2010.
- Molina PE. *Endocrine Physiology*. 4<sup>th</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2013.

#### **Book Chapters**

1. Lang CH, **PE Molina**, GJ Bagby, JJ Spitzer. Chronic alcohol consumption prevents the sepsis-induced increases in gluconeogenesis and metabolic clearance rate. In: *Alcohol*,

- Immunomodulation and AIDS. Eds. RR Watson, D Seminara and A Pawloski. A.R. Liss: New York, pp. 373-382, 1989.
2. Lang CH, NB D' Souza, **PE Molina**, GJ Bagby, JJ Spitzer. Ethanol inhibits the increased glucose flux induced by sepsis or endotoxin. In: Focus on Biochemistry and Physiology of Substance Abuse. Vol. II Ed. RR Watson. CRC Press, Boca Raton pp 245-256, 1990.
  3. Spitzer JJ, GJ Bagby, AP Bautista, NB D'Souza, **PE Molina**, CH Lang. Immunosuppressive effect of alcohol on hepatic parenchymal and non-parenchymal cell functions following endotoxin. In: Drugs of Abuse, Immunity and Immunodeficiency. pp. 255-264. Plenum Press, New York. 1991.
  4. Abumrad NN, H Hourani, **PE Molina**. Hypoglycemia alters insulin's effects on amino acid and protein kinetics in vivo. In: Protein metabolism in diabetes mellitus. Ed. K.S. Nair, 215-221, 1992.
  5. Abumrad NN, S Helou, **PE Molina**, PJ Flakoll. Regulation by amino acids of glucose utilization in humans. In: Branched-Chain amino acids: Biochemistry, Physiopathology, and Clinical Science. Ed: P. Schauder. Raven Press, New York, pp 9-17, 1992.
  6. **Molina PE**, Abumrad NN. Hypothalamus, glucopenia and fuel mobilization. In: Organ metabolism and nutrition: ideas for future critical care. Eds. J.M. Kinney, H.N. Tucker. pp 69-90, 1994.
  7. **Molina PE**, S Burzstein, Abumrad NN. Energy Expenditure: Theories and Assumption. Determinations in the Clinical Setting. In: Crit. Care Clin. 11:587-601, 1995.
  8. Abumrad NN, **PE Molina**. Role of central opiates, glutamate and catecholamines in modulating glucose and protein metabolism. In: Liver and the Nervous System, Proceedings of the Falk Symposium No. 103. Ed. D. Haussinger, K. Jungermann, published 1998 by Kluwer Academic Publishers, Chap. 13, pp 141-155.
  9. Abumrad NN, SM Ystueta, **PE Molina**, S Bursztein. Energy metabolism. In: Nutrition and Metabolism in the Surgical Patient. Ed; JE Fisher.-2nd ed. Little, Brown and Company. New York. pp 105-127.
  10. Abumrad NN, **PE Molina**, JA Rathmacher, S Nissen. Injury, Body Composition, and Nitrogen Metabolism in the Surgical Patient. In: Quality of the Body Cell Mass: Body Composition in the Third Millenium Ed; RN Pierson, Jr. Serono Symposia USA. 2000 Springer-Verlag New York, Inc. pp 291-305.
  11. **Molina, PE**. General Principles of Endocrine Physiology, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
  12. The Hypothalamus and Posterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
  13. Anterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
  14. Thyroid Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
  15. Parathyroid Gland and Calcium and Phosphate Regulation. In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
  16. Adrenal Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731

17. Endocrine Pancreas, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
18. Male Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
19. Female Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
20. Endocrine Integration of Energy and Electrolyte Balance, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
21. Cannabinoids. In: Neuroinflammation and Neurodegeneration. Peterson and Torborek (eds.), Springer Science + Business Media, New York, NY, 2014. Katz PS, Edwards S, **Molina PE.**

### **Scientific Presentations & Conference Participation:**

#### ***Local & National***

1. Oxyradical mediated injury occurs on reperfusion of ischemic rabbit heart. Abstract, FASEB. 46:831, 1987.
2. Ethanol administration blunts the bacterial endotoxin-induced increases in glucose metabolism. Research Society of Alcoholism Scientific Conference, Beaver Creek, CO, June 1988.
3. Oxidation is not required for ethanol to attenuate lipopolysaccharide (LPS)-enhanced carbohydrate metabolism. The Fifth Congress of the International Society for Biomedical Research on Alcoholism, 1990.
4. Ethanol attenuates the endotoxin-enhanced glucose utilization. FASEB: 1990.
5. Percent Contribution of The Lipolytic, Glycolytic And Proteolytic Substrates to Enhanced Hepatic Glucose Output of Insulin-Induced Hypoglycemia. FASEB: Vol 5:1649, 1991.
6. Whole body glucose metabolism in subclinical thiamine deficiency (TD). FASEB: Vol 6:6284, 1992.
7. Tissue protein synthesis; central effects of opiates. Experimental Biology, Washington DC, April 14-17<sup>th</sup>, 1996.
8. Impact of hemorrhage resuscitation fluid lactate content; cardiac and metabolic effects. 19<sup>th</sup> Annual Conference on Shock. Grand Traverse Village, MI. June 2-5, 1996.
9. Neural-Opiate-Cytokine Pathway Activation During Hemorrhage. 20<sup>th</sup> Annual Conference on Shock, Indian Wells, CA. June 15-18, 1997.
10. Alcohol modulation of hemorrhage-induced neuro-Inflammatory response. Alcohol-induced immunopathology Symposium. New Orleans, LA. October 17-18, 1997.
11. Differential regulation of hemorrhage-induced cytokine activation; central vs. peripheral sympathetic nervous systems. Society for Neuroscience. New Orleans, LA. October 25-30<sup>th</sup>, 1997.
12. Sympathetic Modulation of hemorrhage-induced increase in tissue cytokines. Inflammation and the Surgical Patient: Mechanisms and therapy in trauma and burns. Snowbird, UT, January 31-Feb 4, 1998.
13. Histaminergic contribution to the metabolic effects of neuroglucopenia. Experimental Biology, San Francisco, CA. April 18-21, 1998.

14. Endotoxemia and Hemorrhage; Tissue Cytokine and Associated Neuro-Hormonal and Opioid Alterations. 21<sup>st</sup> Annual Conference on Shock, San Antonio, TX. June 14-17th, 1998.
15. Sympathetic modulation of hemorrhage induced lung injury. 17<sup>th</sup> Summer Symposium in Molecular Biology, Penn State University Park, PA. July 29-31, 1998.
16. Cytokines in Hemorrhagic Shock. Conference on Resuscitation fluid design and resuscitation protocols for combat casualties. National Academy of Sciences, Washington DC. September 17-18, 1998.
17. Neuroendocrine and Inflammatory responses to hemorrhagic shock. Invited lecture; Picower Institute for Medical Research, Manhasset, NY. November 18, 1998.
18. Hemorrhage-induced small intestine injury is attenuated by opiate blockade. Experimental Biology, Washington DC, April 17-21, 1999.
19. Neuroendocrine responses to hemorrhagic shock; impact on cytokine responses. ONR workshop on basic and applied combat casualty care research. Philadelphia, PA June 10-12, 1999.
20. Cytokines in Shock: Pro and anti-inflammatory effect. Trauma Symposium Update 1999. North Shore University Hospital, Manhasset, NY. August 6, 1999.
21. Opiate modulation of hemodynamic, hormonal and TNF responses to hemorrhage. 14<sup>th</sup> International Shock Congress, Philadelphia, PA, June 12-16, 1999.
22. Session chair and speaker: The role of opiate and serotonin pathways in the stress/septic response. 23<sup>rd</sup> Annual Conference on Shock. Snowbird UT. June 3-6, 2000.
23. Organizer, Chair and Speaker: Comorbidity of Alcohol and Other Pathologic States. Research Society of Alcoholism, Denver CO. June 29, 2000.
24. Organizer: Cytokines & the Brain, A Satellite Symposium for the Neuroscience 30<sup>th</sup> Annual Meeting, Cytokines in ischemia: neurotoxic or neuroprotective? Overview and Introduction. November 2-4, 2001.
25. Organizer, Chair and Introductory speaker of session: Cytokines and the Brain II, satellite symposium to the Society of Neuroscience 30<sup>th</sup> annual meeting. New Orleans, LA. November 2-4, 2000.
26. Stress-specific opioid modulation of hemodynamic responses FASEB Symposium. Cardiovascular effects of opioid peptides (chaired by Dr. Dan Kapusta). Orlando, FL. April 4, 2001.
27. Pain Impact on the Pathophysiology of Shock. Combat Fluid Resuscitation 2001, Uniformed Services University of the Health Sciences, Bethesda, MD. June 18, 2001.
28. Alcohol intoxication impairs hemodynamic and neuroendocrine counterregulation to hemorrhagic shock. FASEB New Orleans, LA. 2002.
29. Organizer and Chair: Neural Immune Mechanisms in Innate Host Defense: Do they Contribute to Alcohol Immunosuppression? New Orleans, LA. Sponsored by the International Society for NeuroImmunoModulation. April 20, 2002.
30. Pain modulation of pain responses, Shock Society, Big Sky MO, June 8-12, 2002.
31. Morphine modulation of inflammatory responses to hemorrhage, ATACCC, St. Petersburg, FL. September 9-12, 2002.

32. Alcohol intoxication impairs hemodynamic and neuroendocrine counterregulation to hemorrhagic shock, FASEB, San Diego, April 12-15, 2003.
33. Immunomodulatory effects of opiate analgesia in trauma/hemorrhage. Shock Society Meeting, Phoenix AZ, June 9-11, 2003.
34. Differential time-dependent effects of alcohol on alveolar and spleen macrophage TNF production. Research Society for Alcoholism, Ft. Lauderdale, FL. June 21-25, 2003.
35. Acute alcohol intoxication alters the neuroendocrine response to fixed volume hemorrhage in rats. Research Society for Alcoholism, Ft. Lauderdale, FL. June 21-25, 2003.
36. Development of a model to examine the impact of stress on outcome from trauma. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg FL. September 18-20, 2003. Contribution of analgesia to impaired outcome from trauma/hemorrhage. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg FL. September 18-20, 2003.
37. Planning Subcommittee. Neurobiology of Stress. National Hispanic Science Network on Drug Abuse Annual meeting: Stress and Addiction; From molecule to neighborhood. October 2-5, 2003.
38. Consequences of alcohol-induced dysregulation of immediate hemodynamic and inflammatory responses to trauma/hemorrhage. Alcohol and Immunology Research Interest Group (AIRIG) Organizer: Dr. Elizabeth Kovacs. Loyola University Medical Center, Maywood IL. November 21, 2003.
39. Differential cardiovascular and neuroendocrine effects of exercise and restraint stress. Stress, mood and cardiovascular function. Chair: Alan K. Johnson. Experimental Biology, Washington, DC. April 18, 2004.
40. Stress and Addiction, Technology Transfer Workshop on Drug Abuse, sponsored by SAMHSA. San Juan, Puerto Rico. February 25, 2005.
41. Chronic alcohol exacerbates muscle pro-inflammatory response during end-stage SIV infection; implications for muscle protein turnover and preservation of lean body mass. Experimental Biology, San Diego, CA. April 3, 2005.
42. Neuroendocrine modulation of responses to trauma/hemorrhage. Summer Program in Neuroscience, Ethics and Survival. Woods Hole, MA July 15, 2005.
43. Balancing family and research. Summer Program in Neuroscience, Ethics and Survival. Woods Hole, MA. July 16, 2005.
44. Neurobiology of the Stress Response. Second National Conference on Drug Abuse. San Juan, Puerto Rico. August 20, 2005.
45. Organizer and Chair, National Hispanic Science Network on Drug Abuse Conference, Stress and Drug Abuse, from molecule to neighborhood. Miami, FL. September 13-17, 2005.
46. Contribution of soft tissue trauma to pro-inflammatory responses to shock and trauma. Shock Society Meeting, Denver, CO. June 3-7, 2006.
47. Alcohol binge suppresses early lung TNF expression following trauma and hemorrhagic shock. EB, San Francisco, CA. April 2006.
48. Impact of acute moderate alcohol intoxication on outcome from hemorrhage. Experimental Biology, San Francisco, CA. April 2006.



49. Contribution of soft tissue trauma to pro-inflammatory responses to shock and trauma. Shock Society Meeting, Denver, CO. June, 2006.
50. Acute alcohol intoxication does not modulate cardiovascular and neuroendocrine response to immobilization stress. Research Society on Alcoholism, Baltimore, MD. July 2006.
51. Chair, National Hispanic Science Network Scientific Conference; Drug Abuse and HIV/AIDS, Phoenix, AZ, 2006.
52. Noradrenergic modulation of systemic response to infection. SNIP 13<sup>th</sup> annual conference, Salt Lake City, UT April, 2007.
53. Short-term central activation of descending sympathetic outflow does not restore alcohol-induced hemodynamic instability during hemorrhagic shock. EB, Washington, DC, April 2007.
54. Impact of Alcohol Intoxication on Outcome from Trauma/Hemorrhage. Department of Physiology, Tulane University, New Orleans, LA. February 18, 2008.
55. Understanding the Importance of Diversity in the Healthcare Setting. Allied Health Dean's Distinguished Lecture. LSUHSC. New Orleans, LA. November 7, 2008.
56. Alcohol interaction with host defense in traumatic injury. Alcohol, Leukocytes, and host defense Satellite Symposia. Denver, CO. Nov 9, 2008.
57. Chronic Alcohol and Drug Abuse; added burden to HIV/AIDS. Instituto de Ciencia y tecnología del D.F. y la Universidad Autónoma de la Ciudad de México, 3er diplomado en Investigación Genómica, Jan 23, 2009.
58. Impact of alcohol and Drugs of Abuse on HIV. National Hispanic Medical Association 13<sup>th</sup> annual conference. Brooklyn, NY March 19-22, 2009.
59. Alcohol Use is it a problem. Loyola University, Theta Phi Alpha Presentation, New Orleans, April, 2009.
60. Surviving a crisis and embracing new challenges in pathways to leadership: Developing critical skills. Experimental Biology, New Orleans, April 2009.
61. Chronic Alcohol & HIV/AIDS; Added metabolic burden & accelerated muscle wasting. NHSN Videoconference. New Orleans, May 2009.
62. Panelist: Research Society for Alcoholism. Grantsmanship Satellite, San Diego, California. June 2009.
63. Organizer & Chair: Alcohol biomedical consequences and impact on progression of disease (speaker) in Alcohol-HIV-ART Biomedical Consequences and Interactions. Research Society for Alcoholism, San Diego, CA, June, 2009.
64. Targeted pharmacotherapies to improve outcomes from shock in the alcohol-intoxicated host. Department of Defense Military Health Research Forum Kansas City, MO, September, 2009.
65. Embracing the Fierce Urgency of Now. NIH National Hispanic Heritage Month Observance, NIH Bethesda, MD. September 2009.
66. Alcohol Intoxication, Impact on Hemorrhagic Shock. 11<sup>th</sup> Capital City Conference of the German Society of Anesthesiology and Intensive Care Medicine, September 2009.
67. Cardiovascular, metabolic and immune consequences of alcohol intoxication in the trauma victim. Pharmacology Research Seminar, LSUHSC March 2010.

68. Alcohol and drug abuse; impact on HIV/SIV disease progression. Pathology Grand Rounds, LSUHSC. March 2010.
69. Alcohol and Drugs of Abuse; Beyond Risk factors for HIV/AIDS. Banquet Lecture Annual Society for Neuroimmunopharmacology meeting, Manhattan Beach, CA. April, 2010.
70. Panelist in Women and Medicine Panel, American Physician Scientists Association 6<sup>th</sup> Annual Meeting, Chicago, IL. April 2009.
71. Alcohol, Drugs of Abuse, and HIV; Beyond Risk Factors. Research Seminar, Department of Physiology, Tulane University, New Orleans, LA. April 2009.
72. The Balancing Act: Being a Principle Investigator and Administrator in Academia; in Traditional and alternative career paths in rough economic times. ASPET Committee on Diversity Symposia, Experimental Biology, Anaheim, CA. April 24, 2010.
73. ISBRA World Congress. Paris, France .September 13-16, 2010.
74. Alcohol, Drugs of Abuse, and HIV; Beyond Risk Factors. Temple University, Department of Pathology, October 8, 2010.
75. Alcohol and the Musculoskeletal System. Research Seminar, Baylor College of Medicine Department of Molecular Physiology and Biophysics. October 26, 2010.
76. Alcohol & Drugs of Abuse & HIV/AIDS; beyond risk factors. Department of Pathology, University of North Texas Medical Center. January 27, 2011.
77. Alcohol & Drugs of Abuse & HIV/AIDS; beyond risk factors. Interdisciplinary Research Training Institute on Hispanic Drug Abuse. University of Houston, June 8, 2011.
78. Chronic  $\Delta$ 9-THC modulation of simian immunodeficiency virus infection. 21st Annual Symposium of the International Cannabinoid Research Society, Pheasant Run, St. Charles, IL. July 6-9, 2011.
79. Alcohol, drugs of abuse and HIV/AIDS; more than just risk factors. National Association of Biology Teachers, Invited Speaker, Sponsored by APS. Anaheim, CA. October 14, 2011.
80. Alcohol and Drug Abuse Risk factors and modulators of HIV infection. Society for the Advancement of Chicanos and Native Americans in Science. San Jose, CA. October 24, 2011.
81. Organizer and Chair: In "Health Equity in the Hispanic Population; the Science Behind It", sponsored by SACNAS and NHSN. San Jose, CA. October 27, 2011.
82. Systems approach to understanding alcohol & drugs of abuse interaction with HIV/AIDS. Division of Infection, Inflammation and Vascular Biology, Department of Surgery and Pharmacology, University of Minnesota, MN. November. 14, 2011.
83. The Effects of Alcohol on HIV Transmission and Treatment. HIV Series for Clinicians sponsored by Delta Region AIDS Education and Training Center. December 14<sup>th</sup>, 2011.
84. Department of Physiology & Biophysics Howard University College of Medicine, Washington DC. January 30, 2012.
85. Systems approach to unraveling mechanisms of alcohol &  $\Delta$ -9-THC modulation of simian immunodeficiency virus infection. SNIP meeting, Honolulu, HI. April 29, 2012.
86. Organizer, Introduction & Chair: Core mechanisms of alcohol-induced multi-organ & tissue injury. Research Society on Alcoholism, 35th Annual Scientific Meeting, San Francisco, CA. June 26, 2012.

87. Organizer, Chair, Introduction: Stem cells and epigenetics; research at the frontier of biomedical consequences of chronic alcohol consumption. Research Society for Alcoholism, 35<sup>th</sup> Annual Scientific Meeting, San Francisco, CA. June 2012.
88. Alcohol, Drugs of Abuse and HIV/AIDS; Beyond risk factors. SRTI, University of Southern California, LA. June 26, 2012.
89. Alcohol and Drugs of Abuse: Beyond Risk of HIV/AIDS. Department of Immunology, Florida International University, Herbert Wertheim College of Medicine. July 9, 2012.
90. Alcohol and Drugs of Abuse Interaction with HIV/AIDS; Systems Biology Approach in the SIV-Infected Macaque. Society for Leukocyte Biology Annual Meeting, Maui, HI. October 27, 2012.
91. Systems Approach to Unraveling Mechanisms of Alcohol &  $\Delta$ -9-THC Modulation of Simian Immunodeficiency Virus Infection. SNIP, Puerto Rico. April 3-5, 2013.
92. Alcohol & Drugs of Abuse Interaction with HIV Disease Progression. Research Seminar, Seton Hall, April 11, 2013.
93. Impacto del alcohol en el progreso del VIH. Impact of alcohol on progression of HIV; NOAIDS Task Force; New Orleans, LA. May 29, 2013.
94. Alcohol and Drugs of Abuse: Beyond Risk of HIV/AIDS. Interdisciplinary Training Institute, National Hispanic Science Network on Drug Abuse. USC School of Social Work Los Angeles, CA. June 5-15, 2013.
95. Animal models for alcoholic liver disease (ALD) and beyond: Can they help us move from bench to bedside? Satellite Meeting at Research Society on Alcoholism 36<sup>th</sup> Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
96. Organizer and Chair: Neuroendocrine Mechanisms of Alcohol Related Behavioral and Medical Consequences. Research Society on Alcoholism 36<sup>th</sup> Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
97. Organizer and Chair: Alcohol's Burden on HIV/AIDS and the Promise of Brief Multi-Risk Interventions. Research Society on Alcoholism 36<sup>th</sup> Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
98. Differential Regulation of Skeletal Muscle Gene Expression in Chronic Binge Alcohol-Administered Simian ImmunoDeficiency Virus-Infected Macaques. Research Society on Alcoholism 36<sup>th</sup> Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
99. Alcohol and HIV/AIDS Disease Progression; Translating Basic Science Derived Knowledge to the Clinical Setting. Plenary NHSN Conference, Bethesda, MD. Oct 10, 2013.
100. Alcohol and Drugs of Abuse, Sex Matters; Distinguished Lecture Series, Florida Hospital; Ft. Lauderdale, FL. October 2013.
101. Alcohol and HIV. Webinar, Delta AETC, LSUHSC HIV Outpatient (HOP\_ Clinic. New Orleans, LA. November 26, 2013.
102. Alcohol And Trauma: Immunologic Consequences. Symposia Session 1. Organizer/Chairs: Elizabeth Kovacs and Patricia Molina. 37<sup>th</sup> Annual RSA Scientific Meeting and 17<sup>th</sup> Congress of ISBRA. Bellevue, WA. June 21, 2014.
103. Use of Addictive Substances and Neuroinflammation of HIV Infection. NHSN 14<sup>th</sup> Annual International Conference, Resiliency and Neuroplasticity Among Vulnerable Populations-

- Towards a Synchrony of Disciplines. The University of Texas at El Paso. September 3-September 6, 2014.
104. Poster: Acute Alcohol Intoxication Increases Lymphatic Permeability, and Promotes a Perilymphatic Adipose Tissue Inflammatory Milieu. Use of Addictive Substances and Neuroinflammation of HIV Infection. NHSN 14<sup>th</sup> Annual International Conference, Resiliency and Neuroplasticity Among Vulnerable Populations-Towards a Synchrony of Disciplines. The University of Texas at El Paso. September 3-6, 2014.
  105. How the Immune System Modulates Addiction. Symposium. Latin American Research Network in Drug Addiction (LARNEDA): Motivated Behaviors and Neuroplasticity: Role in Addiction. San Juan, Puerto Rico. November 20, 2014.
  106. Alcohol & HIV-Translating our Basic Science Findings. Dean's Research Seminar Series. LSUHSC School of Medicine. New Orleans, LA. December 10, 2014.
  107. Grit, Resilience, Courage, and Enthusiasm; Movers and Shakers of Professional Success. Women in Medicine and Science Group. Physiology Seminar Series. University of Mississippi Medical Center. Jackson, MS. January 28, 2015.
  108. Biomedical Consequences of Chronic Alcohol in HIV Infection. Advances in Molecular and Cellular Pathology Seminar Series. University of Alabama Department of Pathology. Birmingham, AL. February 9, 2015.
  109. Preclinical and Translational Studies Dissecting Chronic Alcohol Modulation of HIV Disease. Human Anatomy and Physiology Conference. San Antonio, TX. May 25, 2015.
  110. Organizer: Novel Insights into Inflammatory Mechanisms of Alcohol-Induced Tissue Injury. 38<sup>th</sup> Annual RSA Scientific Meeting. San Antonio, TX. June 20-24, 2015.
  111. Roundtable: Sex And the Lab: A Discussion about the NIH Initiative to Balance Sex in Cell and Animal Studies. 38<sup>th</sup> Annual RSA Scientific Meeting. San Antonio, TX. June 20-24, 2015.
  112. Discussant: HIV, Alcohol and Health Disparities. Special Session NHSN–RSA. NHSN 15<sup>th</sup> Annual International Conference. San Antonio, TX. June 24-25, 2015.
  113. Preclinical and Translational Studies Dissecting Chronic Alcohol Modulation of HIV Disease. Dean's Research Seminar Series. LSUHSC Department of Physiology. New Orleans, LA. September 10, 2015.
  114. Alcohol-Neuroimmune Interactions in Traumatic Brain Injury. 48<sup>th</sup> Annual Meeting of the Society for Leukocyte Biology: Immunity in Health and Disease. Raleigh, NC. September 27-29, 2015.
  115. Plenary Speaker. Translational Studies on the Impact of Chronic Alcohol Abuse on HIV/AIDS. Annual Biomedical Research Conference for Minority Students (ABRCMS). Seattle, Washington. November 11-14, 2015.
  116. Organizer. The APS President's Symposium Series: Physiological Mechanisms Responsive To Behavioral And Environmental Challenges. Experimental Biology 2016. San Diego, CA. April 3-6, 2016.  
*\*Review (summary and critical commentary) of the symposia: Souza-Smith FM, Lang CH, Nagy LE, Bailey SM, Parsons LH, Murray G. APS President's Symposium Series - Physiological Processes Underlying Organ Injury in Alcohol Abuse. Am J Phys Enocrinol Metab 2016.*

117. APS Leadership and Management Skills: What you might not see in your CV Symposium. Demonstrating Leadership and Management in Practice: Examples of Success and Errors. Experimental Biology 2016. San Diego, CA. April 5, 2016.
118. Discussant. Finding Eradication and Cure for HIV. NHSN 16<sup>th</sup> Annual International Conference. Palm Desert, CA. June 15-17, 2016.
119. Organizer. Symposium: Alcohol & Traumatic Brain Injury: Intersection of Neuroimmune And Behavioral Mechanisms from Injury to Recovery. 39<sup>th</sup> Annual RSA Scientific Meeting. New Orleans, June 26, 2016. New Orleans, LA.
120. Organizer/Speaker. LSUHSC Scientific Satellite Meeting: Alcohol Abuse Co-Morbidities & Triggers for Addiction. Presentation: Overview LSUHSC-NO Alcohol/HIV-AIDS Research Center University Medical Center. New Orleans, LA. June 25, 2016. *\*Offsite satellite preceding the 39<sup>th</sup> Annual RSA Scientific Meeting.*
121. *Speaker. Department of Physiology Research Weekly Seminar Series. University of Louisville. Louisville, KY. September 13, 2016. \*Invited*
122. *Speaker. Endowed Lectureship. Department of Cellular and Integrative Physiology, A. Ross McIntyre Cardio-Renal Seminar Series. University of Nebraska Medical Center. November 17-18, 2016. Omaha, NE. \*Nominated*
123. *Speaker. Panel on "Stress, Habits, Hormones and Trauma: an Endocannabinoid Link in Alcohol-Related Pathologies." 55<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology. December 4-8, 2016. Hollywood, Florida.*
124. *Speaker. "Inflammation; an Underlying Mechanism of Alcohol-SIV Metabolic Dysregulation." Gordon Research Conference on Alcohol-Induced End Organ Diseases, "Metabolic Reprogramming and Molecular Mechanisms of Tissue Injury by Alcohol." March 26-31, 2017. Four Points Sheraton / Holiday Inn Express. Ventura, CA.*

### **International**

1. Differential tissue cytokine response to hemorrhage and lipopolysaccharide (LPS). 4<sup>th</sup> Congress on the Immune Consequences of Trauma, Shock and Sepsis, Munich, Germany, March 4-8, 1997.
2. Contribution of excitatory amino acids to counterregulation during insulin-induced hypoglycemia. Falk Symposium No 103, Freiburg, Germany, October 4-5, 1997.
3. Hemodynamic and Inflammatory Responses to Hemorrhagic Shock; Contribution of Endogenous Opiates. World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany. February 29-March 4, 2000.
4. Impact of alcohol on trauma. In session; New Aspects in Immunomodulation by Alcohol, Research Society on Alcoholism, Montreal, Canada. June 24, 2001.
5. Organizer & Chair Roundtable Discussion: Molecular Pathology and Clinical Aspects of Alcohol-Induced Tissue Injury. Research Society of Alcoholism. Montreal, Canada. June 24, 2001.
6. Organizer, Chair and Speaker: Metabolic and Inflammatory contribution of Alcohol to Trauma-Induced Tissue Injury. In session: Molecular Pathology and Clinical Aspects of Alcohol-induced Tissue Injury. Research Society of Alcoholism, Montreal, Canada, June 25, 2001.

7. Organizer and Chair: American Physiological Society Latin American Initiative Congress; Advances In Physiology; Impact on our Understanding of Health and Disease, Guatemala, Guatemala, November 14-15, 2002.
8. Neuroendocrine regulation of response to trauma, Guatemala, November 14-15, 2002.
9. Advances in Sepsis. Cleveland Clinic Scientific Week, Universidad Francisco Marroquin, Guatemala, CA. May 9, 2003.
10. Immune Consequences of Trauma. Dresden University, Dresden Germany, Department of Physiology, July 30, 2003.
11. Physiopathology of Sepsis. Universidad Matías Delgado, San Salvador, El Salvador. October 29, 2003.
12. Multiple organ failure post trauma. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández, Universidad Matías Delgado, San Salvador, El Salvador. May 13-15, 2004.
13. Sepsis, endothelium and interleukins. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández, Universidad Matías Delgado, San Salvador, El Salvador. May 13-15, 2004.
14. Neuroendocrine regulation of inflammatory responses to trauma. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández, Universidad Matías Delgado, San Salvador, El Salvador. May 13-15, 2004.
15. Impact of alcohol intoxication on outcome from trauma/hemorrhage. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández, Universidad Matías Delgado, San Salvador, El Salvador. May 13-15, 2004.
16. Neurobiology of the Stress Response; Neuroendocrine-immune Interactions. 27th Annual Conference on Shock, Halifax, Nova Scotia, Canada. June 7, 2004
17. Chronic alcohol impact on SIV-associated wasting. Research Society for Alcoholism, Vancouver, Canada, June 23, 2004.
18. Stress and addiction. Segundo Congreso Internacional de Prevención de adicción a las drogas en la niñez. Organizar: US. Department of State & Zazil-Be Foundation. Cancún, Quintana Roo, México. May 2-5, 2005.
19. Role of the sympathetic nervous system in the inflammatory reflex. Nobel Conference, Stockholm, Sweden. September 21, 2005.
20. Multiple organ failure post trauma. Critical Care Congress, San Salvador, El Salvador, October 22, 2005.
21. Sepsis, endothelium and interleukins. Critical Care Congress, San Salvador, El Salvador, October 23, 2005.
22. Alcohol abuse and risk for HIV infection. 1<sup>st</sup> Latin American Congress on Addictions, Lima, Peru. October 5-8, 2005.
23. Youth and drug abuse. V Congreso de Prevención y Asistencia de la Drogadependencia. Cordoba, Argentina. October 24-29, 2005.
24. Impact of Stress of Drug Abuse. Drug abuse and addiction meeting, Valencia, Spain. November 2-6, 2005.
25. Role of genes and stress on drug addiction. Congress of Drug Abuse. Valencia, Spain. November 2-6, 2005.

26. Impact of alcohol intoxication on outcome from hemorrhagic shock. VII Congreso Internacional en Adicciones y 5 Curso de Actualización en Adicciones: de la Ciencia Básica a la Clínica. Guadalajara, Mexico. April 29, 2006.
27. Chronic alcohol; interaction with metabolic manifestations of SIV. US-China Symposium on Drug Abuse and SIV Monkey Models, Wuhan, China, October 2006.
28. Impact of chronic alcohol administration on SIV-induced muscle wasting. HIV/AIDS and Drug Abuse, USA, Caribbean Conference, Puerto Rico, December 2006.
29. Chronic Alcohol Use and Progression of AIDS Wasting. 2<sup>nd</sup> International Symposium and Research Workshop "Alcohol & HIV in Latin America: Prevention and Treatment." Santiago de Cali, Colombia, March 12, 2008.
30. Drugs of Abuse and the HIV Epidemic. Cuarto Taller Regional del Proyecto AD/CAM/04/H90: "Establecimiento de una red de tratamiento, rehabilitación y reinserción social en Centroamérica," Sponsored by United Nations and NIDA. Salinitas, El Salvador, June 9-13, 2008.
31. Alcohol, Drug Abuse and HIV, Hong Kong AIDS Institute, October 2009.
32. Chronic alcohol and SIV infection; enhanced proteasome-mediated loss of muscle mass. 2010.
33. Systems approach to unraveling mechanisms of chronic  $\Delta^9$ -THC modulation of simian immunodeficiency virus infection. Drugs of abuse-HIV infection and NeuroAIDS-A Global scenario. 3<sup>rd</sup> World Congress on Biotechnology at HICC, Hyderabad, India. September 15, 2012.
34. Poster: Chronic binge alcohol (CBA) consumption accentuates skeletal muscle and adipose tissue metabolic dysfunction in simian immunodeficiency virus (SIV) infected male rhesus macaques. 1<sup>st</sup> PanAmerican Congress of Physiological Sciences. Brazil. August 3, 2014.
35. Poster: Skeletal Muscle and Adipose Mechanisms Contributing to Metabolic Dysfunction in Chronic Alcohol Administered Simian Immunodeficiency Virus-Infected Male Macaques. July 29. Physiology 2016: Joint Meeting of the American Physiological Society and the Physiological Society. July 29-31, 2016. Convention Centre Dublin, Ireland.
36. *Speaker. Physiology; the Basic to Translational Science Bridge. Strategic Workshop on "Perspectives for the Physiological Sciences in the 21<sup>st</sup> Century" (Satellite of the Annual Congress of the Brazilian Society of Physiology). August 25, 2016. University of São Paulo, Brazil.*

**Editorial Posts and Activities:**

***Review Board Membership:***

Shock Journal

American Journal of Physiology; Endocrinology and Metabolism

Addiction Science & Clinical Practice

International Journal of Clinical and Experimental Medicine

***Guest Reviewer/Editor:***

Life Sciences

Journal of Neuroimmunomodulation

Brain Research

Alcoholism: Clinical and Experimental Research

Cytokine  
Journal of Applied Physiology  
Critical Care Medicine  
Psychoneuroendocrinology  
Journal of Neuroimmunopharmacology  
Oxidative Medicine and Cellular Longevity  
Alcohol & Alcoholism

## **SERVICE ACTIVITIES**

### **Extramural Appointments & Offices Held:**

2003 – 2007      Councilor, APS Endocrine and Metabolism section  
2003 – 2007      Member and Chair, APS International Committee  
2003 – Pres.      Member, NHSN Steering Committee  
2003 – 2004      President, Gulf Coast Physiological Society  
2004 – 2008      Basic Science Councilor, Shock Society  
2003 – 2010      Councilor, Endocrine and Metabolism Section, APS  
2004 – Pres.      Chair, Membership Subcommittee NHSN  
2004              Member, NIDA Minority Health Disparities Work Group  
2004 – 2007      Member at Large, US National Committee for the International Union of  
Physiological Sciences (USNC/IUPS)  
2008 – 2011      Chair, Porter Development Committee, American Physiological Society  
2010 – 2012      Councilor, Association Chairs Department of Physiology (ACDP)  
2008 – 2011      Council Member, AHA Southeastern Affiliate  
2010 – Pres.      Chair, National Hispanic Science Network (NHSN)  
2011 – 2014      Councilor, American Physiological Society  
2012 – Pres.      Member, National Advisory Council on Alcohol Abuse and Alcoholism  
2015              President, American Physiological Society  
2017              Council Liaison, Committee on Honors, American Physiological Society  
2017              Council Liaison, Trainee Advisory Committee, American Physiological Society

### **University/Institutional Service:**

2000              Participating Host Faculty for Minority Research Day  
2000              LSUHSC Biomedical Research Fund Review Committee  
2001 – 2004      Reviewer/Judge, Medical Student Summer Research Proposals/Presentations  
2001 – 2003      Judge, Poster and Oral Presentations, Department of Medicine Research Day  
2002 – 2014      Institutional Animal Care and Use Committee (IACUC)  
2002 – 2014      Animal Care Advisory Committee  
2002 – 2008      Faculty Assembly  
2002 – 2008      Physiology Graduate Student Committee  
2003 – Pres.      MD/PhD Admissions Committee  
2003 – Pres.      Diversity Committee  
2003 – 2005      Advisory Board Clinical Research Center  
2005 – Pres.      Interdisciplinary Program (IDP) Mentoring Committee  
2006 – 2014      Graduate Advisory Council  
2006 – 2008      Appointments, Promotions, and Tenure Committee  
2008 – 2009      Chair, Communications committee  
2008 – 2009      LCME Self Study Committee  
2008 – 2009      Pathology Chair Search Committee  
2009 – 2011      Panelist for Appointment, Promotion, and Tenure Workshop, LSUHSC  
2010 – 2011      Surgery Chair Search Committee



2010 – 2011 Cardiology Chief Search Committee  
 2010 – Pres. Outreach Committee  
 2010 – Pres. Chair, Communications Work Group  
 2013 – Pres. Strategic Planning Steering Committee  
 2013 – Pres. Strategic Planning Steering Committee  
 2013 – Pres. Chair, Communications Work Group  
 2016 AAMC Faculty Forward ad hoc Task Force, LSUHSC  
 2016 Member, Louisiana Research Showcase organizing team  
 2016 Member, Search Committee for Senior Associate Dean for Faculty and Institutional Affairs

**Special Assignments:**

2006 – 2008 Lecturer, APS Professional Development Skills Workshops  
 2014 Co-chair, Workshop 3: Undergraduate Teaching and the Physiology Pipeline, Association of Chairs of Departments of Physiology Leadership Retreat  
 2014 Georgetown Consensus Conference Work Group – NIH Sex Differences Policy  
 2014 – 2015 Instructor, APS Professional Skills Training Course, Writing and Reviewing for Scientific Journals  
 2016 Co-chair, RSA Annual Scientific Conference Program Committee  
 2016 – 2017 Representative of the American Physiological Society, Scientific Planning Committee for the International Union of Physiological Sciences (IUPS) Congress 2017, August 1-5, Rio de Janeiro, Brazil

**Community Service and Outreach Activities:**

Lector, St. Francis Xavier Church, Metairie, LA  
 Board Member, Council on Alcohol and Drug Abuse (CADA) for Hispanic Initiative  
 Presentation to 8<sup>th</sup> grade students. "What Alcohol Can Do to your Brain."  
 Radio Interview, Radio Tropical, "Alcoholismo". Council on Alcohol & Drug Abuse (CADA), Gretna, LA.  
 Speaker of Science, Sponsored by the National Science Foundation.  
 Presentations to Louisiana middle school and high school students. Females in Science and the Impact of Alcohol on Teenage Brain.  
 Presentation on Teenage Alcohol Abuse. Jesuit High School and Cabrini High School. Annual (2005-Pres.)  
 Keynote Presentation on Alcohol and Teenage Brain Development. Jesuit High School Town Hall Meeting. Audience: Parents incoming 8<sup>th</sup> grade students. New Orleans, LA. 2005.  
 Presentation to 24 7<sup>th</sup> grade students. "Alcohol Intoxication" St. Margaret Mary Middle School, Slidell, LA. 2005.  
 Community School for Apprenticeship Learning, Baton Rouge, LA. 2005.  
 Alcohol And Drug Abuse Prevention Workshop. Roosevelt High School, New Orleans, LA. 2006.  
 Host, Ben Franklin High School Visit to LSUHSC. 2007.  
 Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership. Banneker Elementary School, New Orleans, LA. Discussion of my research on alcohol intoxication and hemorrhage; exercise on animal adaptations to different environments. 2007.  
 Vice President, Hispanic American Medical Association of Louisiana. 2007-2009.

Councilor, Hispanic American Association of Louisiana. 2007-2009.

Council at Large, Hispanic American Medical Association of Louisiana. 2007-2010.

Chapelle High School Career Day. 2010.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership. Banneker Elementary School, New Orleans, LA. Field Trip to LSUHSC Effects Of Alcohol On Blood Pressure (Intoxication Goggles Demonstration). 2008.

Physiology Understanding Week (PhUn Week). Banneker Elementary School, New Orleans, LA. Discussion of my research on alcohol intoxication and hemorrhage and the physiology of exercise; the Elvis Experiment. 2008

Radio Interview. "Alcoholismo." KGLA/Radio Tropical. WLTV4. "Addiction And Obesity." 2009.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership. Banneker Elementary School, New Orleans, LA; Discussion of my research (Alcohol Intoxication And Hemorrhage), Nutrition, Food Groups. 2009.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership. Banneker Elementary School, New Orleans, LA Field trip to LSUHSC; Effects of alcohol on reflexes (intoxication goggles). 2009.

Physiology Understanding Week (PhUn Week). Lake Castle Private School Madisonville, LA; What Is Physiology?; Blood Pressure/Heart Rate. 2009.

"Para Un Futuro Mejor" (For A Better Future) for the Program Council on Alcohol & Drug Abuse (CADA); Local Hispanic high school students field trip to LSUHSC; Effects of alcohol on the human body; intoxication goggles; discussion on careers in science. 2009.

Host, 5<sup>th</sup> Annual LSUHSC School of Graduate Studies and NOLA Public Schools Science Partnership Field Trip.

NoAIDS Task Force. "Impacto Del Alcohol en el Progreso del VIH." 2013

Radio Interview, News Stories on the Impact of Marijuana Use on Glucose, Insulin, and Insulin Resistance WWL 870 AM, 105.3 FM, and WWL.com. 2013.

Radio Interview, WWL First News with Tommy Tucker (WWL 870 AM, 105.3 FM). Drinking and driving / the NTSB recommendation to lower the alcohol limit for driving. May 16, 2013.

Radio Interview, WWL First News with Tommy Tucker (WWL 870 AM, 105.3 FM). How alcohol effects the body. June 4, 2013.

Radio Interview, "Alcoholismo." KGLA/Radio Tropical. June 8, 2015.

Organizer / Participant, Basics in Biomedical Research Workshop. Universidad Francisco Marroquín School of Medicine. Guatemala City, Guatemala. August 19-21, 2015.

Presentation to 3<sup>rd</sup>-6<sup>th</sup> grade students. Lake Castle Private School, Madisonville, LA. "Girls And Boys Can Be Scientists." October 14, 2013.

Presentation to high school students. John Curtis Christian High School. River Ridge, LA. "How Alcohol Intoxication can affect how the Body Responds to Injury." April 23, 2015.

Parent Alcohol Education Seminar. Lusher High School, New Orleans, LA. "Keeping Your Kids Safe At Mardi Gras." New Orleans, LA. February 1, 2016.