

**CURRICULUM VITAE**

**Patricia E. Molina, M.D., Ph.D.**

**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

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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 Neuroimmunepharmacology

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

2001–2008 Honorary Consul General of El Salvador, New Orleans, LA

2003–2009 Councilor, Endocrine and Metabolism Section, American Physiological Society (APS)

2004–2006 Councilor, Basic Science Scection, Shock Society

2005–2007 Chair, International Committee, American Physiological Society

2008–2001 Chair, Porter Development Committee, American Physiological Society

2008–Pres. Richard Ashman Professor of Physiology, LSUHSC

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

2010–2013 Councilor, American Physiological Society

2007–2010 Vice-Chair, National Hispanic Science Network on Drug Abuse

2010–Pres. Chair, National Hispanic Science Network on Drug Abuse

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*

2002–2006 Member, NIAAA Advisory Board for Intramural Research

2003 Organizer and Chair, Consensus Workshop: Allostatic Load and The Response to Injury and Trauma, National Institute of General Medical Studies Center

2004 Member, NIDA Minority Health Disparities Work Group

2004–2007 Member at Large, US National Committee for the International Union of Physiological Sciences

2007–2011 Member, Biomedical Research Review Subcommittee of NIAAA Initial review group AA1

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 Lecturer. Physiology—Renal Physiology, Muscle and Parturition (9 h)

LSUHSC School of Nursing

1989 Lectures: Physiology—Renal; Physiology and Acid–Base (6 h)

LSUHSC School of Allied Health

1991 Preceptor for 1st/2nd year medical students. Introduction to Biomedical Research

Vanderbilt University

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 S Summer Lecture Series: Introduction to Metabolic Research

SUNY Stony Brook, Division of Surgical Research

1996   Vitamin and Women’s Nutrition Lectures. 1st year Medical Nutrition Course

2000   Introduction to Clinical Medicine; GI; Back to Basics. Medical students (2nd year) (2 h) Course Directors: Drs. Cassidy & Bagwell.

2000   Graduate Cell Biology: Signal Transduction and Cell Signaling (2 h)

Course Director: C. Hornick

2001   Medical Physiology, Introduction to Endocrinology, Hypothalamus (3 h)

Course Director: H. Miller

2001   Alcohol Research Center Training Program: Alcohol and Trauma (1 h)

Program Director: G. Bagby

2001 Allied Health Physiology: Introduction to Endocrine (3 h); GI physiology (4 h) Course Director: G. bagby

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. Course Director/Lecturer. Graduate Endocrine Physiology (3 h credit)

2003–2005 Perspectives in Alcohol Research (Program Coordinator)

2005–Pres. Course Director/Lecturer. Medical Spanish Elective (Spring) (2 h credit)

2005–Pres. Course Director/Lecturer. Perspectives in Alcohol Research Elective (1 h credit)

2005–2015 Director/Lecturer. Endocrine Course Block for Biological Systems (Interdisciplinary program)

2005–2015 Lecturer. Growth and Development, Aging (4 h). School of Dentistry.

2006–2012 Lecturer. Endocrine Pathophysiology

Nursing (3 h, twice/year) and CARE programs (3 h, twice/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 Melchiode (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: Gabe Navar (Undergraduate Summer Research)

2015 Mentor of mentor for: Jacob Elnaggar (Undergraduate Summer Research)

2015 Vienna Benavides (Undergraduate Summer Research)

2016 Mentor of mentor for: Alyssa Guillory (Undergraduate Summer Research)

2016 Mentor of mentor for: Wolfe Waguespack (Undergraduate Summer Research)

2016 Mentor of mentor for: Ishan Basu Ray (Undergraduate Summer Research)

2016 Mentor of mentor for: Garth Cook (Undergraduate Summer Research)

2016 Mentor of mentor for: Peter Sayde (Undergraduate Summer Research)

2016 Mentor of mentor for: Sarah Stender (Undergraduate Summer Research)

2016 Mentor of mentor for: Rahib Islam (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

2013–2015 Whitney Nichols, MD/PhD, LSUHSC

2013–Pres. Jacques Mayeux, MS, PhD, LSUHSC

2013–Pres. John Maxi, 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 Puneky, Medical Student Summer Research

2015 Gabriela Squeo, Medical Student Summer Research

2016 Cody Blackwelder, Medical Student Summer Research

2016 Zachary Stielper, Medical Student Summer Research

2016 Kelsey Cage, Medical Student Summer Research

**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

2015–2016 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 03/01/16–02/28/17 0.0 calendar

NIAAA/NIH $15,000

Presidential Symposium: Physiological Processes Underlying Organ Injury in Alcohol Abuse, San Diego, April 2016

The grant provides support for the American Physiological Society (APS) Presidential Symposium I and the Translational Physiology Interest Group (TPIG) Featured Topic Session, featured at the 2016 Experimental Biology (EB) meeting.

Role: Principal Investigator

2 P60 AA009803 12/10/14–11/30/19 2.4 calendar

NIAAA/NIH $1,313,927/year

LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center

The LSUHSC-NO CARC is a multi-institutional, multidisciplinary team of scientists focusedon

understanding the interaction of alcohol use disorders (AUD) and HIV disease.

Role: Principal Investigator/Director

2 T32 AA007577 09/01/09–8/31/19 0.0 calendar

NIAAA/NIH $402,449/year

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 06/01/09–05/31/19 0.24 calendar

NIDA/NIH $93,000/year

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 09/15/12–8/31/17 2.4 calendar

NIAAA/NIH $399,332/year

HI /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) 04/05/12–03/31/17 0.20 calendar

NIAAA/NIH $86,896/year

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) 01/04/12–03/31/17 0.0 calendar

NIAAA/NIHA

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

Studies explored 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

Studies investigated the effectiveness of inhibitors of endocannabinoid degradation in improving outcome from traumatic brain injury. This approach had 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 focus of the education part of the ARC is 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 GM 103514-10 (Kapusta) 09/01/03–06/30/13

NCRR/NIH

Mentoring in Cardiovascular Biology

Role: Mentor for trainees on the Cardiovascular COBRE.

R01 DA 030053-03S1 06/01/12–08/01/12

NIDA/NIH

Summer Research with NIDA

This project provided a training opportunity for an undergraduate student for 8-10 weeks in 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 Δ9-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 AA00448747 09/01/08–08/30/09

NIAAA/NIH

Training Directors Meeting LSUHSC 2009

This project focused on organizing 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

NOOO14-97-1-0248 02/01/97–01/31/06

Neural Control of Hemorrhage-Induced Tissue Cytokine Production

The goal was to determine the time course, magnitude, and tissue specificity of the alterations in pro-inflammatory cytokine and endogenous opiate concentrations induced by hemorrhage, and 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 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 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 was to define the temporal changes in the responses of ß-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 was to examine the contribution of gut-derived proteolysis to the overall counteregulatory 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

The studies examined the contribution of alcohol-induced alterations in thyamine 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 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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
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.
12. **Molina PE**, Abumrad NN. Metabolic effects of opiates and opioid peptides. *Adv Neuroimmunol*. 1994;4(2):105-116.
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.
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.
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.
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.
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.
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.
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.
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.
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.
22. Hashiguchi Y, **Molina PE**, Abumrad NN. Morphine-3-glucuronide: Hyperglycemic and neuroendocrine potentiating effects. *Brain Res*. 1995;694(1-2):13-20.
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.
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.
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 B1 (thiamine). *J Nutri Biochem.* 1996;7(4):207-213. [doi:10.1016/0955-2863(96)00011-3](http://dx.doi.org/10.1016/0955-2863(96)00011-3)
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.
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.
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. P
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.
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.
31. Cersosimo E, **Molina PE**, Abumrad NN. Renal glucose production during insulin-induced hypoglycemia. *Diabetes*. 1997;46(4):643-646.
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.
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.
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.
35. **Molina PE**, Williams P, Abumrad NN. Histaminergic contribution to the metabolic effects of neuroglucopenia. *Am J Physiol*. 1997;272(6 Pt 2):R1918-1924.
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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**.

**Presentations & Conference Participation:**

Abstract. Oxyradical mediated injury occurs on reperfusion of ischemic rabbit heart. FASEB. Fed Proc 46:831, 1987.

Ethanol administration blunts the bacterial endotoxin-induced increases in glucose metabolism. Research Society of Alcoholism Scientific Conference. Beaver Creek, CO. June 1988.

Oxidation is not required for ethanol to attenuate lipopolysaccharide (LPS)-enhanced carbohydrate metabolism. 5th Congress of the International Society for Biomedical Research on Alcoholism. 1990.

Ethanol attenuates the endotoxin-enhanced glucose utilization. FASEB, 1990.

Percent contribution of the lipolytic, glycolytic and proteolytic substrates to enhanced hepatic glucose output of insulin-induced hypoglycemia. FASEB J (5)1649, 1991.

Whole body glucose metabolism in subclinical thiamine deficiency (TD). FASEB 6:6284, 1992.

Tissue protein synthesis; central effects of opiates. Experimental Biology. Washington DC. April 14-17, 1996.

Differential tissue cytokine response to hemorrhage and lipopolysacharide (LPS). 4th International Congress on the Immune Consequences of Trauma, Shock and Sepsis. Munich, Germany. March 4-8, 1997.

Impact of hemorrhage resuscitation fluid lactate content; cardiac and metabolic effects.19th Annual Conference on Shock. Grand Traverse Village, MI. June 2-5, 1996.

Neural-opiate-cytokine pathway activation during hemorrhage. 20th Annual Conference on Shock. Indian Wells, CA. June 15-18, 1997.

Contribution of excitatory amino acids to counterregulation during insulin-induced hypoglycemia. Falk Symposium No. 103. Freiburg, Germany. October 4-5, 1997.

Differential regulation of hemorrhage-induced cytokine activation; central vs. peripheral sympathetic nervous systems. Society for Neuroscience Annual Meeting. New Orleans, LA. October 25-30, 1997.

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-February 4, 1998.

Histaminergic contribution to the metabolic effects of neuroglucopenia. Experimental Biology. San Francisco, CA. April 18-21, 1998.

Endotoxicosis and hemorrhage; tissue cytokine and associated neuro-hormonal and opioid alterations. 21st Annual Conference on Shock. San Antonio, TX. June 14-17, 1998.

Speaker. Panel on Pathophysiology and Metabolic Sequelae. 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.

Hemorrhage-induced small intestine injury is attenuated by opiate blockade. Experimental Biology. Washington DC. April 17-21, 1999.

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.

Opiate modulation of hemodynamic, hormonal and TNF responses to hemorrhage. 4th International Federation of Shock Societies Congress. Philadelphia, PA. June 12-16, 1999.

Hemodynamic and inflammatory responses to hemorrhagic shock; contribution of endogenous opiates. International Congress on the Immune Consequences of Trauma, Shock and Sepsis. Munich, Germany. February 29-March 4, 2000.

Session chair and speaker. The role of opiate and serotonin pathways in the stress/septic response. 23rd Annual Conference on Shock. Snowbird, UT. June 3-6, 2000.

Organizer, chair, and speaker. Comorbidity of alcohol and other pathologic states. Research Society on Alcoholism, Denver CO*.* June 29, 2000.

Impact of alcohol on trauma. In session; new aspects in immunomodulation by alcohol. Research Society on Alcoholism, Montreal, Canada. June 24, 2001.

Organizer and chair. Roundtable discussion: Molecular pathology and clinical aspects of alcohol-induced tissue injury. Research Society oo Alcoholism. Montreal, Canada. June 24, 2001.

Organizer. Cytokines & the Brain, A Satellite Symposium for the Neuroscience 30th Annual Meeting, Cytokines in ischemia: neurotoxic or neuroprotective? Overview and Introduction. November 2-4, 2001.

Organizer, chair, and introductory speaker. Cytokines and the brain II. Satellite Symposium to the Society of Neuroscience 30th Annual Meeting. New Orleans, LA. November 2-4, 2000.

Stress-specific opioid modulation of hemodynamic responses. FASEB Symposium. Cardiovascular effects of opioid peptides. Orlando, FL. April 4, 2001.

Pain impact on the pathophysiology of shock. Combat Fluid Resuscitation Conference. Uniformed Services University of the Health Sciences. Bethesda, MD. June 18, 2001.

Alcohol intoxication impairs hemodynamic and neuroendocrine counterregulation to hemorrhagic shock. FASEB. New Orleans, LA. 2002.

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.

Pain modulation of pain responses. Shock Society. Big Sky, MO. June 8-12, 2002.

Morphine modulation of inflammatory responses to hemorrhage. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg, FL. September 9-12, 2002.

Alcohol intoxication impairs hemodynamic and neuroendocrine counterregulation to hemorrhagic shock. FASEB. San Diego, April 12-15, 2003.

Organizer and chair. Advances in physiology; Impact on our understanding of health and disease. American Physiological Society Latin American Initiative Congress. Guatemala, Guatemala. November 14-15, 2002.

Neuroendocrine regulation of response to trauma. Guatemala, November 14-15, 2002.

Advances in sepsis. Cleveland Clinic Scientific Week. Universidad Francisco Marroquin, Guatemala City, Guatemala. May 9, 2003.

Immunomodulatory effects of opiate analgesia in trauma/hemorrhage. Shock Society Meeting. Phoenix AZ, June 9-11, 2003.

Differential time-dependent effects of alcohol on alveolar and spleen macrophage TNF production. Research Society on Alcoholism. Ft. Lauderdale, FL. June 21-25, 2003.

Acute alcohol intoxication alters the neuroendocrine response to fixed volume hemorrhage in rats. Research Society on Alcoholism. Ft. Lauderdale, FL. June 21-25, 2003.

Immune consequences of trauma. Dresden University, Department of Physiology. Dresden, Germany. July 30, 2003.

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.

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.

Physiopathology of sepsis. Universidad Matías Delgado. San Salvador, El Salvador. October 29, 2003.

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.

Differential cardiovascular and neuroendocrine effects of exercise and restraint stress. Stress, mood and cardiovascular function. Experimental Biology. Washington, DC. April 18, 2004.

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.

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.

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.

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.

Neurobiology of the stress response; Neuroendocrine-Immune interactions. 27th Annual Conference on Shock. Halifax, Nova Scotia, Canada. June 7, 2004

Chronic alcohol impact on SIV-associated wasting. Research Society on Alcoholism. Vancouver, Canada. June 23, 2004.

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. Diplomado en Investigación Genómica. January 23, 2009.

Stress and addiction. ATTC Addiction Technology Transfer Center Network Workshop on Drug Abuse, sponsored by SAMHSA. San Juan, Puerto Rico. February 25, 2005.

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.

Stress and addiction. Segundo Congreso Internacional de Prevención de Adicción a las Drogas en la Niñez. Organized by the US Department of State & Zazil-Be Foundation. Cancún, Quintana Roo, México. May 2-5, 2005.

Videoconference. Chronic alcohol & HIV/AIDS; Added metabolic burden & accelerated muscle wasting. National Hispanic Science Network. May 2009.

Neuroendocrine modulation of responses to trauma/hemorrhage. Summer Program in Neuroscience, Ethics & Survival (June 18-July 16, 2005). Woods Hole, MA. July 15, 2005.

Balancing family and research. Summer Program in Neuroscience, Ethics & Survival (June 18-July 16, 2005). Woods Hole, MA. July 16, 2005.

Neurobiology of the stress response. 2nd National Conference on Drug Abuse. San Juan, Puerto Rico. August 20, 2005.

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.

Role of the sympathetic nervous system in the inflammatory reflex. Nobel Conference. Stockholm, Sweden. September 21, 2005.

Multiple organ failure post trauma. Critical Care Congress. San Salvador, El Salvador. October 22, 2005.

Sepsis, endothelium and interleukins. Critical Care Congress. San Salvador, El Salvador. October 23, 2005.

Alcohol abuse and risk for HIV infection. 1st Latin American Congress on Addictions. Lima, Peru. October 5-8, 2005.

Youth and drug abuse. V Congreso de Prevención y Asistencia de la Drogadependencia. Cordoba, Argentina. October 24-29, 2005.

Impact of stress of drug abuse. Drug Abuse and Addiction Meeting. Valencia, Spain. November 2-6, 2005.

Role of genes and stress on drug addiction. Congress of Drug Abuse. Valencia, Spain. November 2-6, 2005.

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.

Alcohol binge suppresses early lung TNF expression following trauma and hemorrhagic shock. Experimental Biology. San Francisco, CA. April 2006.

Impact of acute moderate alcohol intoxication on outcome from hemorrhage. Experimental Biology. San Francisco, CA. April 2006.

Contribution of soft tissue trauma to pro-inflammatory responses to shock and trauma. Shock Society Meeting. Denver, CO. June 2006.

Acute alcohol intoxication does not modulate cardiovascular and neuroendocrine response to immobilization stress. Research Society on Alcoholism. Baltimore, MD. July 2006.

Chair: National Hispanic Science Network Scientific Conference: Drug Abuse and HIV/AIDS. Phoenix, AZ. 2006.

Chronic alcohol; interaction with metabolic manifestations of SIV. US–China Symposium on Drug Abuse and SIV Monkey Models. Wuhan, China. October 2006.

Impact of chronic alcohol administration on SIV-induced muscle wasting. HIV/AIDS and Drug Abuse, USA, Caribbean Conference, Puerto Rico. December 2006.

Noradrenergic modulation of systemic response to infection. SNIP 13th annual conference, Salt Lake City, UT. April, 2007.

Short-term central activation of descending sympathetic outflow does not restore alcohol-induced hemodynamic instability during hemorrhagic shock. Experimental Biology. Washington, DC, April 2007.

Chronic alcohol use and progression of AIDS wasting. 2nd International Symposium and Research Workshop: Alcohol & HIV in Latin America: Prevention and Treatment. Santiago de Cali, Colombia, March 12, 2008.

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.

Alcohol interaction with host defense in traumatic injury. Alcohol, Leukocytes, and Host Defense Satellite Symposia. Denver, CO. November 9, 2008.

Surviving a crisis and embracing new challenges in pathways to leadership: Developing critical skills. Experimental Biology. New Orleans, April 2009.

Panelist. Research Society on Alcoholism Grantsmanship Satellite. San Diego, California. June 2009.

Organizer/Chair and Speaker. Alcohol biomedical consequences and impact on progression of disease. Alcohol-HIV-ART Biomedical Consequences and Interactions Symposium. Research Society on Alcoholism. San Diego, CA, June 2009.

Targeted pharmacotherapies to improve outcomes from shock in the alcohol-intoxicated host. Department of Defense Military Health Research Forum (MHRF). Kansas City, MO. August 31-September 3, 2009.

Alcohol intoxication, impact on hemorrhagic shock. 11th Capital City Conference of the German Society of Anesthesiology and Intensive Care Medicine. September 2009.

Embracing the fierce urgency of now. NIH National Hispanic Heritage Month Observance, NIH Bethesda, MD. September 2009.

Alcohol, drug abuse and HIV. Hong Kong AIDS Institute. October 2009.

Alcohol and drugs of abuse; Beyond risk factors for HIV/AIDS. Banquet Lecture: Annual Society for Neuroimmunepharmacology Meeting. Manhattan Beach, CA. April, 2010.

Women and Medicine Panel. American Physician Scientists Association 6th Annual Meeting. Chicago, IL. April 2009.

Chronic alcohol and SIV infection; enhanced proteasome-mediated loss of muscle mass. 2010.

The balancing act: Being a Principal Investigator and Administrator in Academia. ASPET Committee on Diversity Symposia: Traditional and Alternative Career Paths in Rough Economic Time. Experimental Biology. Anaheim, CA. April 24, 2010.

ISBRA World Congress. Paris, France. September 13-16, 2010.

Chronic Δ9-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.

Alcohol, drugs of abuse and HIV/AIDS; more than just risk factors. National Association of Biology Teachers, sponsored by APS. Anaheim, CA. October 14, 2011.

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.

Organizer/Chair. Health equity in the hispanic population; The science behind it. Sponsored by SACNAS and NHSN. San Jose, CA. October 27, 2011.

The Effects of alcohol on HIV transmission and treatment. HIV series for clinicians sponsored by Delta Region AIDS Education and Training Center. December 14, 2011.

Systems approach to unraveling mechanisms of alcohol & Δ9-THC modulation of Simian immunodeficiency virus infection. Society for Neuroimmune Pharmacology. Honolulu, HI. April 29, 2012.

Organizer/Chair and Speaker Core mechanisms of alcohol-induced multi-organ & tissue injury. Research Society on Alcoholism, 35th Annual Scientific Meeting. San Francisco, CA. June 26, 2012.

Organizer/chair and introduction. Stem cells and epigenetics; research at the frontier of biomedical consequences of chronic alcohol consumption. Research Society on Alcoholism. San Francisco, CA. June 2012.

Impacto del alcohol en el progreso del VIH. Impact of alcohol on progression of HIV; NOAIDS Task Force; New Orleans, LA. May 29, 2013.

Poster. Chronic binge alcohol (CBA) consumption accentuates skeletal muscle and adipose tissue metabolic dysfunction in simian immunodeficiency virus (SIV) infected male rhesus macaques. 1st PanAmerican Congress of Physiological Sciences. Brazil. August 3, 2014.

Systems approach to unraveling mechanisms of chronic Δ9-THC modulation of simian immunodeficiency virus infection. Drugs of abuse-HIV infection and NeuroAIDS-A Global scenario. 3rd World Congress on Biotechnology at HICC, Hyderabad, India. September 15, 2012.

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.

Systems approach to unraveling mechanisms of alcohol & Δ9-THC modulation of simian immunodeficiency virus infection. SNIP, Puerto Rico. April 3-5, 2013

Alcohol and drugs of abuse: Beyond risk of HIV/AIDS. Interdisciplinary Training Institute, National Hispanic Science Network on Drug Abuse. University of Southern California, School of Social Work. Los Angeles, CA. June 5-15, 2013.

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 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.

Organizer/Chair. Neuroendocrine mechanisms of alcohol related behavioral and medical consequences. Research Society on Alcoholism 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.

Organizer/Chair. Alcohol's burden on HIV/AIDS and the promise of brief multi-risk interventions. Research Society on Alcoholism. Ft. Lauderdale, FL. June 22-26, 2013.

Differential regulation of skeletal muscle gene expression in chronic binge alcohol-administered simian immunodeficiency virus-infected macaques. Research Society on Alcoholism 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.

Alcohol and HIV/AIDS disease progression; Translating basic science derived knowledge to the clinical setting. Plenary NHSN Conference, Bethesda, MD. Oct 10, 2013.

Alcohol and trauma: Immunologic consequences. Symposia Session 1. Organizer/Chairs: Elizabeth Kovacs and Patricia Molina. 37th Annual RSA Scientific Meeting and 17th Congress of ISBRA. Bellevue, WA. June 21, 2014.

Use of addictive substances and neuroinflammation of HIV infection. NHSN 14th 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.

Poster. Acute alcohol intoxication increases lymphatic permeability and promotes a perilymphatic adipose tissue inflammatory milieu. Use of addictive substances and neuroinflammation of NIV infection. NHSN 14th Annual International Conference: Resiliency and neuroplasticity among vulnerable populations – towards a synchrony of disciplines. University of Texas at El Paso, Texas. September 3-6, 2014.

Symposium speaker. How the immune system modulates addiction. Latin American Research Network in Drug Addiction (LARNEDA): Motivated Behaviors and Neuroplasticity: Role in Addiction. San Juan, Puerto Rico. November 20, 2014.

Preclinical and translational studies dissecting chronic alcohol modulation of HIV disease. Human Anatomy and Physiology Conference. San Antonio, TX. May 25, 2015.

Organizer. Novel insights into inflammatory mechanisms of alcohol-induced tissue injury. 38th Annual RSA Scientific Meeting. San Antonio, TX. June 20-24, 2015.

Roundtable participant. Sex and the lab: A discussion about the NIH Initiative to balance sex in cell and animal studies. Research Society on Alcoholism. San Antonio, TX. June 20-24, 2015.

Discussant. HIV, alcohol and health disparities. Special Session NHSN–RSA. NHSN 15th Annual International Conference. San Antonio, TX. June 24-25, 2015.

Alcohol-neuroimmune interactions in traumatic brain injury. 48th Annual Meeting of the Society for Leukocyte Biology: Immunity in Health and Disease. Raleigh, NC. September 27-29, 2015.

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.

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): 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.

What you might not see in your CV. APS Leadership and Management Skills Symposium. Demonstrating Leadership and Management in Practice: Examples of Success and Errors. Experimental Biology 2016. San Diego, CA. April 5, 2016.

Discussant. Finding eradication and cure for HIV. NHSN 16th Annual International Conference. Palm Desert, CA. June 15-17, 2016.

Speaker. Panel on Sex and Gender in Substance Use Research. NHSN 16th Annual International Conference. Palm Desert, CA. June 15-17, 2016.

Organizer/Speaker. Overview LSUHSC-NO Alcohol/HIV-AIDS Research Center University Medical Center. New Orleans, LA. June 25, 2016. LSUHSC Scientific Satellite: Alcohol abuse co-morbidities & triggers for addiction.*\**Offsite satellite preceding the 39thAnnual Research Society on Alcoholism (RSA) Scientific Meeting.

Organizer. Symposium: Alcohol & traumatic brain injury: intersection of neuroimmune and behavioral mechanisms from injury to recovery. 39th Annual Research Society on Alcoholism (RSA) Scientific Meeting. New Orleans. June 26, 2016.

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. Convention Centre Dublin, Ireland. July 29-31, 2016.

*Physiology; the basic to translational science bridge. Strategic Workshop on “Perspectives for the Physiological Sciences in the 21st Century” (Satellitte of the Annual Congress of the Brazilian Society of Physiology). University of São Paulo, Brazil. August 25, 2016.*

*Physiological Mechanism Underlying Alcohol-Induced Tissue Injury. NIAAA-ESBRA Joint Symposium: Mechanism for Alcohol-Induced Organ Damage. ISBRA ESBRA Berlin 2016. World Congress on Alcohol and Alcoholism. Berlin, Germany. September 2-5, 2016.*

*Alcohol-Neuroimmune interactions in traumatic brain injury. 8th Congress of the International Federation of Shock Societies (IFSS2016). Tokyo, Japan. October 3-5, 2016.\*Nominated*

*Panel on “Stress, habits, hormones and trauma: an endocannabinoid link in alcohol-related pathologies.” 55th Annual Meeting of the American College of Neuropsychopharmacology. Hollywood, Florida. December 4-8, 2016.*

*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. Four Points Sheraton / Holiday Inn Express. Ventura, CA. March 26-31, 2017.*

**Invited Lectures / Presentations:**

Neuroendocrine and inflammatory responses to hemorrhagic shock. Invited lecture; Picower Institute for Medical Research, Manhasset, NY. November 18, 1998.

Impact of alcohol intoxication on outcome from trauma/hemorrhage. Tulane University Department of Physiology. New Orleans, LA. February 18, 2008.

Sympathetic modulation of hemorrhage induced lung injury. Department of Biochemistry and Molecular Biology 17th Summer Symposium in Molecular Biology. Penn State University. University Park, PA. July 29-31, 1998.

Alcohol, drugs of abuse, and HIV; beyond risk factors. Department of Physiology Research Seminar. Tulane University. New Orleans, LA. April 2009.

Alcohol, drugs of abuse, and HIV; Beyond risk factors. Temple University, Department of Pathology, October 8, 2010.

Alcohol and the musculoskeletal system. Research Seminar, Baylor College of Medicine Department of Molecular Physiology and Biophysics. October 26, 2010.

Alcohol & drugs of Abuse & HIV/AIDS; beyond risk factors. Department of Pathology, University of North Texas Medical Center. January 27, 2011.

Alcohol & drugs of Abuse & HIV/AIDS; beyond risk factors. Interdisciplinary Research Training Institute on Hispanic Drug Abuse. University of Houston. June 8, 2011.

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.

Howard University College of Medicine, Department of Physiology & Biophysics Seminar. Washington DC. January 30, 2012.

Alcohol, drugs of abuse and HIV/AIDS; Beyond risk factors. University of Southern California. Los Angeles, CA. June 26, 2012.

Alcohol and drugs of abuse: Beyond risk of HIV/AIDS. Florida International University Department of Immunology, Herbert Wertheim College of Medicine. Miami, FL. July 9, 2012.

Alcohol and drugs of abuse, sex matters. Distinguished Lecture Series, Florida Hospital. Fort Lauderdale, FL. October 2013.

Alcohol & drugs of abuse interaction with HIV disease progression. Research Seminar. Seton Hall University. South Orange, NJ. April 11, 2013

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.

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.

*Department of Physiology Research Weekly Seminar Series. University of Louisville. Louisville, KY. September 13, 2016.*

*Endowed Lectureship. Department of Cellular and Integrative Physiology, A. Ross McIntyre Cardio-Renal Seminar Series. University of Nebraska Medical Center. Omaha, NE. November 17-18, 2016.*

*Alcohol-Neuroimmune Interactions in Traumatic Brain Injury. University of New Orleans Department of Biological Sciences Seminar. New Orleans, LA, September 26, 2016.*

**Intramural Conferences & Seminars:**

Alcohol modulation of hemorrhage-induced neuro-inflammatory response. Alcohol-Induced Immunopathology Symposium. LSUHSC Alcohol Research Center. New Orleans, LA. October 17-18, 1997.

Cytokines in shock: Pro and anti-inflammatory effect. Trauma Symposium Update 1999. North Shore University Hospital, Manhasset, NY. August 6, 1999.

Understanding the importance of diversity in the healthcare setting. School of Allied Professions Dean’s Distinguished Lecture Series. LSUHSC. New Orleans, LA. November 7, 2008.

Cardiovascular, metabolic and immune consequences of alcohol intoxication in the trauma victim. Department of Pharmacology Seminar Series. LSUHSC. March 2010.

Alcohol and drug abuse; impact on HIV/SIV disease progression. Department of Pathology Grand Rounds. LSUHSC. March 2010.

Alcohol and HIV. Webinar, Delta AETC, LSUHSC HIV Outpatient Clinic. New Orleans, LA. November 26, 2013.

Alcohol & HIV–Translating our basic science findings. School of Medicine Dean's Research Seminar Series. LSUHSC. New Orleans, LA. December 10, 2014.

Preclinical and translational studies dissecting chronic alcohol modulation of HIV disease. School of Medicine Dean's Research Seminar Series. LSUHSC. New Orleans, LA. September 10, 2015.

**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 Neuroimmunepharmacology

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

2016–2021 External Advisory Board Member, University of Louisville NIH P50 Alcohol Research Center (PI: Craig McClain)

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

2000LSUHSC 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 8th 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 8th grade students. New Orleans, LA. 2005.

Presentation to 24 7th 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.

Alcohol use—is it a problem? Loyola University, Theta Phi Alpha Presentation, New Orleans, April 2009.

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, 5th 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 3rd-6th gradue 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.