**CURRICULUM VITAE**

Name:

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

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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)

Post-Doctoral: Vanderbilt University, Nashville, TN (1990-1992)

Certification:

**ECFMG** Certificate # 0-474-770-5

Languages:

English, Spanish and French

**Awards and Honors:**

NIAAA Council (2012-2015)

Excellence in Mentorship Award, National Hispanic Science Network, (2012)

Richard Ashman Professor of Physiology, LSUHSC (2006-Present)

Chair National Hispanic Science Network on Drug Abuse (2010-present)

Councilor for the Association of Chairs of Departments of Physiology (2010-2012)

Louisiana Pathfinder Award (2011)

Vice-Chair National Hispanic Science Network on Drug Abuse (2007-2010)

Honorary Consul General of El Salvador, New Orleans (2001-2008)

Top Ten Female Achievers, New Orleans Magazine (2007)

Organizer and Chair of Consensus Workshop on: Allostatic load and the response to injury and trauma. NIGMS, (March 20-21, 2003).

Outstanding Graduate Student, LSUMC, New Orleans (1989).

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

**INSTITUTION RANK PERIOD OF APPOINTMENT**

##### LSUHSC, NO Department Head 2008-Present

LSUHSC, NO Director Alcohol & Drug Abuse Center 2008-Present

##### LSUHSC, NO Professor with Tenure 2004-Present

##### LSUHSC, NO Associate Professor 09/1999-2004

LSUHSC, NO Gratis Associate Professor 09/1997-09/1999

North Shore University Hospital, NY Chief Surgical Research 10/1996-09/1999

Brookhaven National Lab., NY Guest Scientist 10/1996-09/2000

State University of NY, Stony Brook Research Associate Professor 05/1996-09/1996

State University of NY, Stony Brook Research Assistant Professor 07/1992-05/1996

Vanderbilt University, Nashville TN Research Instructor 08/1990-06/1992

**Membership in Professional Organizations:**

American Physiological Society

Shock Society

American Association for the Advancement of Science

International Society for Neuroimmunomodulation

Research Society for Alcoholism

National Hispanic Science Network on Drug Abuse

Endocrine Society

Society of Neuroimmunepharmacology

**Teaching Experience/Responsibilities:**

1988-89 Nursing Physiology-Renal Physiology, muscle and parturition lectures (9 hr/yr) LSU.

1989 Allied Health Physiology-Renal physiology and acid-base lectures (6 hr/yr) LSU.

1991 Preceptor for 1st and 2nd year medical students; Introduction to Biomedical Research, Vanderbilt.

1992-96 Preceptor for Minority High School Summer Research Program, SUNY, Stony Brook.

1993-96 Preceptor for Undergraduate (EUREKA) and medical students (MD with distinction program), SUNY Stony Brook.

1994-96 Introduction to Metabolic Research. Summer lecture series, Division of Surgical Research, SUNY Stony Brook.

1. 1st year Medical Nutrition Course; Vitamin and Women’s Nutrition Lectures.
2. Introduction to Clinical Medicine; GI; Back to Basics. Drs. Cassidy & Bagwell. (2 h), 2nd year medical students
3. Graduate Cell Biology Course. Signal transduction and Cell signaling (2 h). Course Director C. Hornick.
4. Medical Physiology; Introduction to Endocrinology, Hypothalamus (3 h). Course Director; H. Miller
5. 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.

2002-03 Graduate Cell Biology Course. Signal transduction and Cell signaling (3 h). Course Director C. Hornick.

 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)

2003-05 Perspectives in Alcohol Research (Program Coordinator)

2005-Pres. Medical Spanish Elective (Course Director & Lecturer, 2 h credit, Spring semester)

2005-Pres. Perspectives in Alcohol Research Elective (Course Director & Lecturer; 1 h credit)

2005-Pres. Endocrine block for Biological Systems (IDP program; Block director & lecturer)

2006-Pres. Endocrine Pathophysiology (Lecturer Nursing and CARE programs 3 h/course twice a year)

2005-Pres. Growth and Development, Aging Lectures (4 h), Dental students

2006-08 Lecturer APS Professional Development Skills Workshops

**Undergraduate, Graduate, Resident, Fellow, Post-doctoral Instruction**

07/92-05/03 Khalil Yousef, MD, Stony Brook Surgical Resident

01/94-12/94 Jeroen Meijerink, MD, PhD, Netherlands.

09/94-10/96 Samuel Bundz, MD, Stony Brook Surgical Resident

03/95-09/95 Shihab Khogali, MD, PhD, Scotland

08/93-10/95 Yoshiro Hashiguchi, MD, PhD, Japan

07/95-06/96 Saied Malek, MD, Baharain

07/98-09/99 Nasim Ahmed, MD, North Shore University Hospital

10/00-05/01 Danielle Williams, Xavier University, NOLA.

06/00-06/01 Herbert Phelan, MD. LSUHSC Postdoctoral fellow

10/00-10/03 Kirsten Zambell, PhD. LSUHSC Postdoctoral fellow

01/02-01/05 Diego Niño, MD. Graduate Student LSUHSC

09/02-09/03 Muñeca Slade, Undergraduate student

07/04-07/08 Keisa Williams Mathis, MS, PhD

07/04-07/05 Jaquelin Varela, Graduate Student. LSUHSC

06/04-08/04 Ze Zhang, Undergraduate summer research

07/05-07/07 Patrick Greiffeinstein, MD. LSUHSC Postdoctoral fellow

06/05-08/05 O’Keith Dellafosse, Medical student summer research

06/05-08/05 Jeremy Daigle, Medical student summer research

06/05-08/05 Rachel Rider, Undergraduate summer research

10/06-08/07 Tiffany Best, Undergraduate research

04/07-04/12 Annie M. Whitaker, PhD student

05/07-05/13 Jesse Sulzer, MD/PhD student

05/08-11/10 Edith Walker, PhD candidate

06/08-06/09 Tesslyn Land, Xavier University undergraduate

01/09-05/09 Chris Hakenjos, Cardiopulmonary Sciences student

06/09-08/09 Sophie Giberga, High School student

05/10-Pres Flavia Souza-Smith, PhD, post-doctoral fellow

06/11-Pres Sophie Teng, MD/PhD candidate

06/12-08/12 Daniel Puneky, MD student

06/11-01/13 Emily Rogers, undergraduate student

08/12-Pres Tracy Dodd, PhD, Post-doctoral fellow

10/12-Pres Megan Armstrong-Lipe, PhD, Post-doctoral fellow

11/12-Pres Paige Katz, PhD, Post-doctoral fellow

03/13-Pres Whitney Nichols, MD/PhD Candidate

06/13-Pres Jacques Mayeux, MS, Graduate student

06/13-Pres John Maxi, Graduate student

06/13-08/13 Parth Thaker, Undergraduate summer research

06/13-08/13 Claire Franklin, Undergraduate summer research

06/13-08/13 Mohammed Elaasar, Undergraduate summer research

06/13-08/13 Jackie Spangenberg, High School student

**Grants & Contracts:**

MOLINA, PE

 **ACTIVE**

1U01AA21995-01 (Molina) 09/15/12 – 8/31/17 2.4 calendar

NIH/NIAAA $1,886,942

HIV / AIDS & Alcohol-Related Outcomes; Translational Evidence-Based Interventions

This project will develop and strategically test coordinated interventions to reduce alcohol use and alcohol-related consequences in HIV-impacted populations.

Role: PI

5 P60 AA09803-19 (Nelson)                      12/01/09 - 11/30/14 2.4 calendar

NIH/NIAAA                                                $1,525,008

Alcohol, HIV Infection and Host Defense

My role in this project is as Academic Research Coordinator, Administrative Component

The goals of the education portion of the ARC are to disseminate information relating to alcohol abuse to the public and to foster interdisciplinary research efforts among scientists.

Role: PI

5T32 AA07577-14 (Bagby) 09/01/09 - 8/31/14 0.0 calendar

NIAAA $374,370/yr

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: Co-Director

5R13 DA026647-04 (Molina)         06/01/09 – 5/31/14 0.6 calendar

NIH/NIDA       $135,036/yr

National Hispanic Science Network on Drug Abuse (NHSN) Annual Conference

The Annual National Hispanic Science Network on Drug Abuse Conference will promote 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: PI

5R01DA030053-03 (Molina) 07/01/10 - 2/28/15 2.4 calendar

NIH/ NIDA $836,482/yr

Cannabinoid Epigenomic and miRNA mechanisms impact HIV/SIV disease progression

The major goals of the proposed studies will 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 rhesus macaques.

Role: PI

W81XWH-11-2-0011 (Molina) 09/30/10 – 10/03/13 2.4 calendar

Department of Defense $266,770/yr

Endocannabinoids as a target for the treatment of traumatic brain injury

The proposed studies will investigate the effectiveness of inhibitors of endocannabinoid degradation in improving outcome from traumatic brain injury. This approach would have 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: PI

1R25AA021304-01 (Gregory, Molina)04/05/12 – 03/31/17    0.2 calendar

NIAAA/NIH                                                        $82,948

Louisiana SURE Program

This program will support ten undergraduate students to conduct hands on research during the summer on alcohol related diseases.  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

1T35AA021097-01 (Gregory, Molina)        04/01/12 – 03/31/17        0.0 calendar

NIAAA/NIH                                                     $21,860

Medical Student Alcohol Research Internship

To provide LSU medical students with an opportunity to conduct research on alcohol related disease.  The students will not only work with members of the Alcohol Research Center, but will also interact with the trainees on the NIAAA T32.

Role: Co-Investigator

**PENDING**

 Grant #11403179 (Molina) 09/01/14 – 08/31/19

NIH/NIAAA T32 Renewal $2,077,370

Biomedical Alcohol Research Training Program

Grant #11458494 (Molina) 06/01/14 – 03/31/19

NIH/NIDA R13 Renewal $643,390

National Hispanic Science Network on Drug Abuse (NHSN) Annual Conference

Grant # 11490401 (Molina) 04/01/14 – 03/31/16

NIH/NIAAA U01 Admin Supplement $196,723

HIV / AIDS & Alcohol-Related Outcomes; Translational Evidence-Based Interventions

R01 (PA-12-040) (Molina) 04/01/14 – 03/31/19

NIH/NIDA $422,780

Sub-Applicant: Urban Health Research Initiative - University of British Columbia

Cannabinoids in HIV Disease Pathogenesis

**COMPLETED**

P20 GM103514-10 (Kapusta)                    09/01/03- 06/30/13

NIH/NCRR

Mentoring in Cardiovascular Biology

My role in this project is to serve as a mentor for trainees on the Cardiovascular COBRE.

5R01 DA020419-05 (Molina) 08/07/06 - 03/31/13

NIDA

Cannabinoid Effects on HIV/AIDS

The major goals of this proposal are to characterize the chronic effects of cannabinoids on a variety of parameters (e.g., body weight, viral load, immunological markers and neuropsychological functioning) in SIV- and sham-infected rhesus monkeys.

5R01 DA030053-03S1 06/01/12 – 08/01/12

Summer Research with NIDA (Molina)

This project provided a training opportunity for an undergraduate student during a period of 8-

10 weeks during the summer of 2012

R01 DA020419-04S3 (Molina)       10/01/09 - 09/30/12

NIH/NIDA

Cannabinoid Effects on HIV/AIDS

The purpose of the administrative supplement is to extend our ongoing studies to female animals. Limited research in drug abuse is conducted in females.  There are substantial differences in the hormonal, neurobehavioral, immunological, and pharmacological responses between males and females.  Programs and therapeutics designed for males may not have the same efficacy in females. Progression and course of the disease during drug abuse may also be altered in females.

R01 DA020419-04S1 (Molina)                 04/01/09 – 03/31/12

NIH/NIDA

Cannabinoid Effects on HIV/AIDS

The proposed studies build on the ongoing studies; make use of the existing infrastructure and unique animal model of simian immunodeficiency virus (SIV) infection in non-human primates subjected to chronic cannabinoid administration. Focus on gut associated lymphoid tissue.

3 R01 DA020419-02S1 (Molina) 08/10/06 – 03/31/12
Cannabinoid effects on HIV/AIDS

NIDA

The major goals of this proposal are to establish the impact of cannabinoids on progression of SIV infection in Chinese-derived rhesus macaques. This is a supplement to the parent grant, which will be performed in Beijing at the Laboratory for Animal Sciences under direction of Dr. Zhiwei Chen from the Hong Kong AIDS Institute.

PR 054196 (Molina) 04/03/06 - 04/02/11

Department of Defense

Alcohol intoxication Impact on outcome from traumatic injury

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

LSUHSC Translational initiative 01/01/09 - 12/31/09

Translational Studies on the Consequences

of Alcohol Intoxication on Outcome from Traumatic Injury

Cannabinoid Effects on HIV/AIDS              06/20/09 –09/31/09

R01 DA020419- 04S2  NIH/NIDA (Molina)

This administrative supplement will focus on minority science and research training. It will create 4 positions and accelerate the pace of my scientific research; the specific purpose of these recovery act funds. Our summer research program will bring together 2 science teachers, a high school student, and an undergraduate college student.

Role: PI

R13 NIAAA00448747 (Molina) 09/01/08 - 08/30/09

NIAAA

Training Directors Meeting LSUHSC 2009

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

Role: PI

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

Hispanic Drug Abuse Research,

Application to Practice: A National Videoconference Training Program

The focus of this proposal is to develop a videoconference training program that will provide opportunities for interdisciplinary mentorship for graduate students and early career professionals involved in drug abuse research. LSUHSC will be one of 4 nodes for the program.

Role: Project Director

R01 NIAAA 13543-05 (Molina) 07/01/02 – 06/30/09

NIAAA

Chronic Alcohol & AIDS Impact on Muscle Wasting

The goals of the project are 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: PI

NSF(2008) PFund 103 (Molina)                 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: PI

Summer Research with NIDA (Molina 06/1/08 - 08/01/08

DA020419-02S2

This project will provide training opportunity for an undergraduate student during a period of 8-10 weeks during the summer of 2008.

Role: PI

P20 RR016816-06 (Bazan, N.)                  02/01/07 – 01/31/12

NIH/NCRR

Mentoring Neuroscience in Louisiana

My role in this project is to serve as a mentor for trainees on the Neuroscience COBRE.

1R13GM080954-01 (Kovacs) 06/01/07 – 05/31/08

Role in Project: Co-Investigator and Organizer

Alcohol and Trauma

The goal of this project was to organize a satellite symposia at the SHOCK society meeting in Baltimore in 2007.

1 U01 AA014293-01 (Nelson) 04/01/03 - 03/31/06

Alcohol Research Planning and

Development Program

The goals of this project were to develop a research program with Xavier School of Pharmacy.

Develop a research plan that will enable Xavier Faculty to establish research programs. In addition, the education aspect will focus on developing courses that will better prepare Pharmacy students to deal with drug-alcohol interactions.

Role in Project: Co-Investigator

Louisiana Health Excellence Fund (Shellito) 06/01/00 - 05/31/05

Role in project: Project 3 PI

“Immunosuppression following trauma/hemorrhage; Impact of alcohol intoxication”

The goals of this project are 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.

1R13 AA 13578-01 (Molina) 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.

NOOO14-97-1-0248 (Molina) 02/01/97 - 01/31/06

Neural Control of Hemorrhage-induced Tissue Cytokine Production

The goals of this project were 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.

RO1GM50567-03 (Abumrad) 08/01/93 - 07/31/97

Surgery--Protein Breakdown and Endogenous Opiates

Role in Project Co-investigator

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

Pilot and Feasibility Project (Molina) 01/01/91 - 01/12/92

Clinical Nutrition Research Unit, Vanderbilt

Ethanol-thiamine interactions in energy metabolism.

The goal of this project was to examine the contribution of alcohol-induced alterations in thyamine metabolism to the observed derangements in intermediary metabolism of alcoholics.

RO1-DK-42562S1 (Abumrad) 02/01/92 - 06/30/96

Proteolysis in hypoglycemia - impact of CNS.

PI Supplement for underrepresented minorities.

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

Bell Memorial Fellowship (Molina)

AHA, Louisiana Chapter. 1990-1992

Mechanisms of the sepsis-induced splanchnic hyperemia. (declined due to relocation)

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

**LSUHSC Institutional Committee Responsibilities:**

2003-Present IACUC

2004-Present Animal Care Advisory Committee

2004-Present MD/PhD Admissions Committee

2006-2008 Appointments, Promotions and Tenure Committee

2004-Present Diversity Committee

2008-2010 LCME Self Study Committees

**Extramural appointments or offices held:**

Councilor APS Endocrine and Metabolism section (2002-2009)

Member and Chair APS International Committee (2003-2007)

Member NHSN Steering Committee (2003-present)

Member National Hispanic Science Network 3rd Scientific Meeting Planning Subcommittee (2003-Present)

Chair Membership Subcommittee NHSN (2004-Present)

President Gulf Coast Physiological Society (2003-2004)

Basic Science Councilor Shock Society (2004-2008)

Councilor for Endocrine and Metabolism section of the American Physiological Society (2003-2010)

Member NIDA Minority Health Disparities Work Group (2004)

Member at Large US National Committee for the International Union of Physiological Sciences (USNC/IUPS) (July 1, 2004-2007)

Chair Porter Development Committee, American Physiological Society (2008-2011)

Councilor Association Chairs Department of Physiology (2009-2012)

AHA Southeastern Affiliate Council Member (2008-2011)

Chair National Hispanic Science Network (2010-present)

Councilor American Physiological Society (2010-2013)

Member of the National Advisory Council on Alcohol Abuse and Alcoholism (2012- Present)

**Review Activities**

Member NIAAA Intramural Board of Scientific Counselors (2002-2006)

NAED (NeuroAIDS and End-Organ Diseases Study Section) (2006)

New England National Primate Research Center Special Emphasis Panel (June 2007)

Permanent member Biomedical Research Review Subcommittee AA-11 (2007-2010)

Pathogenesis of NeuroAIDS and Alcohol Abuse ZAA1 BB (8/2007)

NIDA Avant Garde Special Emphasis Panel/SRG 2008/08 ZDA1 NXR-B (5/2008)

Special Emphasis Panel/Scientific Review Group 2008/08 ZHL1 CSR-H (7/2008)

Congressionally Directed Medical Research Program (2008-Present)

NIDA Intramural Board of Scientific Concilors (2009-2012)

Special Emphasis Panel ZAA1 JJ (06) RFA-AA-09-006 mechanism of Alcohol-Induced Organ Damage (2009)

Special Emphasis Panel/Scientific Review Group 2010/01 SAT (2009)

Challenge Grant NHLBI ZRG1 AARR-C (57) S (2009)

Chair Biomedical Research Review Subcommittee AA-11 (2009-2012)

NIAAA T-32 Review Committee (2010)

Special Emphasis Panel/Scientific Review Group 2011/05 AA-4 (2011)

Special Emphasis Panel/Scientific Review Group 2011/01 ZAA1 HH (01) (2010)

NIDA Minority and Health Disparities workgroup (2011)

**Scientific presentations**

Oxyradical mediated injury occurs on reperfusion of ischemic rabbit heart. Abstract, FASEB. 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. The Fifth 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: Vol 5:1649, 1991.

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

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

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

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

Neural-Opiate-Cytokine Pathway Activation During Hemorrhage. 20st Annual Conference on Shock, Indian Wells, CA. June 15-18th, 1997.

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

Alcohol modulation of hemorrhage-induced neuro-Inflammatory response. Alcohol-induced immunopathology Symposium. New Orleans, LA. October 17-18, 1997.

Differential regulation of hemorrhage-induced cytokine activation; central vs. peripheral sympathetic nervous systems. Society for Neuroscience. New Orleans, LA. October 25-30th, 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-Feb 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 14-17th, 1998.

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

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.

Neuroendocrine and Inflammatory responses to hemorrhagic shock. Invited lecture; Picower Institute for Medical Research, Manhasset, NY. November 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 pn basic and applied combat casualty care research. Philadelphia, PA June 10-12, 1999.

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

Opiate modulation of hemodynamic, hormonal and TNF responses to hemorrhage. 14th International Shock Congress, Philadelphia, PA, June 12-16, 1999.

Hemodynamic and Inflammatory Responses to Hemorrhagic Shock; Contribution of Endogenous Opiates. World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany. Feb 29-March 4th, 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 3-6th, 2000.

Organizer, Chair and Speaker: Comorbidity of Alcohol and Other Pathologic States. Research Society of Alcoholism, Denver CO*.* June 29, 2000.

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

Organizer, Chair and Introductory speaker of session: 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 (chaired by Dr. Dan Kapusta). Orlando, FL. April 4th, 2001.

Pain Impact on the Pathophysiology of Shock. Combat Fluid Resuscitation 2001, Uniformed Services University of the Health Sciences, Bethesda, MD. June 18, 2001.

Impact of alcohol on trauma. In session; New Aspects in Immunomodulation by Alcohol, Research Society on Alcoholism, Montreal, Canada. June 24th, 2001.

Organizer & ChairRoundtable Discussion: Molecular pathology and clinical aspects of alcohol-induced tissue injury. Research Society of Alcoholism. Montreal, Canada. June 24, 2001.

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.

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, ATACCC, St. Petersburg, FL. September 9-12, 2002.

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.

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

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

Advances in Sepsis. Cleveland Clinic Scientific Week, Universidad Francisco Marroquin, Guatemala, CA. May 9th, 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 for Alcoholism, Ft. Lauderdale, FL. June 21-25, 2003.

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

Immune Consequences of Trauma. Dresden University, Dresden Germany, Department of Physiology, 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.

Neurobiology of Stress. National Hispanic Science Network on Drug Abuse Annual meeting: Stress and Addiction; From molecule to neighborhood. October 2-5, 2003.

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.

Physiopathology of Sepsis. Universidad Matías Delgado, San Salvador El Salvador. Oct 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.

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 for Alcoholism, Vancouver, Canada, June 23, 2004.

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.

Neuroendocrine modulation of responses to trauma/hemorrhage. Summer Program in Neuroscience, Ethics and Survival. Woods Hole, MA July 15th, 2005.

Balancing family and research. Summer Program in Neuroscience, Ethics and Survival. Woods Hole, MA. July 16th, 2005.

Neurobiology of the Stress Response. Second National Conference on Drug Abuse. San Juan, Puerto Rico. August 20, 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.

Stress and Addiction, Technology Transfer Workshop on Drug Abuse, sponsored by SAMHSA. San Juan Puerto Rico. February 25th 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 3rd, 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.

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

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

Contribution of soft tissue trauma to pro-inflammatory responses to shock and trauma. Shock Society Meeting, Denver, CO. June 3rd to 7th, 2006.

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

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

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 29th, 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. EB, Washington, DC, April 2007.

Impact of Alcohol Intoxication on Outcome from Trauma/Hemorrhage. Department of Physiology, Tulane University, New Orleans, LA. February 18, 2008.

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.

Understanding the Importance of Diversity in the Healthcare Setting. Allied Health Dean’s Distinguished Lecture.

Nov 7th, 2008.

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

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.

Impact of alcohol and Drugs of Abuse on HIV. National Hispanic Medical Association 13th annual conference. Brooklyn, NY March 19-22, 2009.

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

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

Chronic Alcohol & HIV/AIDS; Added metabolic burden & accelerated muscle wasting. NHSN Videoconference. New Orleans, May 2009.

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

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.

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

Embracing the Fierce Urgency of Now. NIH National Hispanic Heritage Month Observance, NIH Bethesda, MD. September 2009.

Alcohol Intoxication, Impact on Hemorrhagic Shock. 11th Capital City Conference of the German Society of Anesthesiology and Intensive Care Medicine, September, 2009.

Alcohol, Drug Abuse and HIV, Hong Kong AIDS Institute, October 2009.

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

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

Alcohol and Drugs of Abuse; Beyond Risk factors for HIV/AIDS. Banquet Lecture Annual Society for Neuroimmunepharmacology meeting, Manhattan Beach, CA. April, 2010.

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

Alcohol, Drugs of Abuse, and HIV; Beyond Risk Factors. Research Seminar, Department of Physiology, Tulane University, New Orleans, LA. April 2009.

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.

Chronic alcohol and SIV infection; enhanced proteasome-mediated loss of muscle mass. 2010 ISBRA World Congress Paris, France September 13-16, 2010.

Alcohol, Drugs of Abuse, and HIV; Beyond Risk Factors. Temple University, Department of Pathology, October 8th, 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 8th , 2011.

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, Invited Speaker, Sponsored by APS. Anaheim, CA. October 14th, 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 24th, 2011.

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.

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 14th, 2011.

The Effects of Alcohol on HIV Transmission and Treatment.  HIV Series for Clinicians sponsored by Delta Region AIDS Education and Training Center. December 14th, 2011.

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

Systems approach to unraveling mechanisms of alcohol & Δ-9-THC modulation of simian immunodeficiency virus infection. SNIP meeting, Honolulu, HI. April 29th, 2012.

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

Organizer, Chair, Introduction: Stem cells and epigenetics; research at the frontier of biomedical consequences of chronic alcohol consumption. Research Society for Alcoholism, 35th Annual Scientific Meeting, San Francisco, CA June 2012.

Alcohol, Drugs of Abuse and HIV/AIDS; Beyond risk factors. SRTI, University of Southern California, LA. June 26th, 2012.

Alcohol and Drugs of Abuse: Beyond Risk of HIV/AIDS. Department of Immunology, Florida International University, Herbert Wertheim College of Medicine. July 9th, 2012.

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.

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.

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 and 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 and Chair: Alcohol's Burden on HIV/AIDS and the Promise of Brief Multi-Risk Interventions. Research Society on Alcoholism 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.

Differential Regulation of Skeletal Muscle Gene Expression in Chronic Binge Alcohol-Administered Simian Immuno- 2 Deficiency 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.

### **Refereed Journal Publications:**

1. Molina PE, Lang CH, Bagby GJ, D'Souza NB, Spitzer JJ. Ethanol Administration Diminishes the

 Endotoxin-Induced Increases in Glucose Metabolism. Alcoholism Clin. Exp. Res. 13:407-12, 1989.

 PMID: 2665557

1. Molina PE, Lang CH, Bagby GJ, Spitzer JJ. Ethanol Attenuates Endotoxin-Enhanced Glucose

 Utilization. Am. J. Physiol. 258:R987-93, 1990. PMID: 2184686

1. Molina PE, Lang CH, Bagby GJ, Spitzer JJ. Ethanol Oxidation is not Required for Ethanol to

 Attenuate Endotoxin-Enhanced Carbohydrate Metabolism. Am. J. Physiol. 260: R1058-65, 1991.

 PMID: 2058733

1. Lang CH, Molina PE, Abumrad NN. Granulocyte Colony-Stimulating Factor Prevents Ethanol-Induced

Impairment in Host Defense in Septic Rats. Alcoholism Clin. Exp. Res 17:1268-74, 1993. PMID: 7509576

1. Molina PE, Tayeb KE, Hourani H, Okamura K, Williams P, Abumrad NN. Hormonal and Metabolic

 Effects of Neuroglucopenia. Brain Res. 614:99-08, 1993. PMID: 8348333

1. Lang CH, Molina PE, Yousef KA, Tepper PG, Abumrad NN. Role of IL-1a in Central Nervous System

 Immunomodulation of Glucoregulation. Brain Res. 624:53-60, 1993. PMID: 82524

1. Lang CH, Molina PE, Skrepnick N, Bagby GJ, Spitzer JJ. Epinephrine-Induced Changes in Hepatic

 Glucose Production After Ethanol. Am J. Physiol. 266:E863-69, 1994. PMID: 80239

1. Molina PE, Tepper PG, Yousef KA, Abumrad NN, Lang CH. Central NMDA Enhances Hepatic

 Glucose Output and Non-Insulin-Mediated Glucose Uptake by a Noradrenergic Mechanism. Brain

 Res. 634:41-48, 1994. PMID: 8156391

1. Yousef KA, Tepper PG, Molina PE, Abumrad NN, Lang CH. Differential Regulation of Stress Hormone

 Response and Glucose Metabolism by NMDA and Kainate. Brain Res. 634:131-40, 1994. PMID:

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1. Molina PE, Lang CH, Yousef KA, Tepper PG, Abumrad NN. Thiamine Deficiency Impairs Entodoxin-

 Induced Increase in Hepatic Glucose Output. Am. J. Clin. Nutr. 59(5):1045-49, 1994. PMID: 8172089.

1. Molina PE, Myers N, Smith RM, Lang CH, Yousef KA, Tepper PG, Abumrad NN. Nutritional and

 Metabolic Characterization of a Thiamine-Deficient Rat Model. J. Parent. Ent. Nutr. 18:104-11, 1994.

 PMID: 8201744

1. Molina PE, Hashiguchi Y, M Ajmal M, Mazza M, Abumrad NN. Differential Hemodynamic, Metabolic

 and Hormonal Effects of Morphine and Morphine-6-Glucuronide. Brain Res. 664:126-32, 1994. PMID:

 7895021.

1. Molina PE, Abumrad NN. Gut Derived Proteolysis During Insulin-Induced Hypoglycemia; The Pain that

 Breaks Down the Gut. J. Parent. Ent. Nutr. 18:549-56, 1994. PMID: 7602732

1. Molina PE, Abumrad NN. Metabolic Effects of Opioid Peptides and Opiate Alkaloids. Adv.

 Neuroimmunology 4(2):105-16, 1994. PMID: 7952827

1. Petit F, Jarrous A, Dickinson RD, Molina PE, Abumrad NN, Lang CH. Contribution of Central and

 Peripheral Adrenergic Stimulation to IL-1a-Mediated Glucoregulation. Am J. Physiol. 267:E49-56,

 1994. PMID: 8048512

1. Molina PE, Jabbour K, Williams P, Abumrad NN. Effect of Acute Ethanol Intoxication on

 Glucoregulation During Prolonged Insulin-Induced Hypoglycemia. Am. J. Physiol. 267:R1280-87,

 1994. PMID: 7977855

1. Fan J, Molina PE, Gelato MC, Lang CH. Differential Tissue Regulation of Insulin-Like Growth Factor-1

 Content and Binding Proteins after Endotoxin. Endocrinology 134:1685-89, 1994. PMID: 7511091

1. Molina PE, Hashiguchi Y, Meijerink J, Boxer R, Naukam R, Abumrad NN. Modulation of Endogenous

 Opiate Production: Effect of Fasting. Biochim. Biophys. Res. Comm. 207312-17, 1995. PMID:

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1. Abumrad NN, Kim S, Molina PE. Regulation of Gut Glutamine Metabolism: Role of Hormones and

 Cytokines. Proc. Nutr. Soc. 54:525-33, 1995. PMID: 8524899

1. Hashiguchi Y, Molina PE, Abumrad NN. Morphine‑3‑Glucuronide: Hyperglycemic and Neuroendocrine

 Potentiating Effects. Brain Res. 694:13-20, 1995. PMID: 8974636

1. Hashiguchi Y, Molina PE, Abumrad NN. Modulation of Metabolic Effects of Morphine‑6‑Glucuronide by

 Morphine‑3‑Glucuronide. Brain Res. Bull. 38(4):325-29, 1995. PMID: 8535854

1. Bundz S, Molina PE, Lang CH, Abumrad NN. Endogenous Opiates do not Modulate the LPS-Induced

 Alterations in Glucose Metabolism. Shock 4(6):397-02, 1995. PMID: 8608395

1. Molina PE, Tiao G, Meijerink J, Hasselgren PO, Abumrad NN. Sepsis-Induced Increase in Brain

 Endogenous Morphine: Regulator of Proteolysis. Surg. Forum XLVI: 4-6, 1995.

1. Meijerink WJH, Molina PE, Lang CH, Abumrad NN. Contribution of Excitatory Amino Acids to

 Morphine-Induced Metabolic Alterations. Brain Res. 706 (1):123‑28, 1996. PMID: 8720499

1. Molina PE, Fan J, Gelato M, Lang CH, Abumrad NN. Modulation of Insulin-Like Growth Factor-I: A

 Specific Role for Vitamin B1 (Thiamine). Nutritional Biochemistry 7:207-13, 1996.

1. Hashiguchi Y, Molina PE, Fan J, Lang CH, Abumrad NN. Central Opiate Modulation of Growth Hormone and IGF-I. Brain Res. Bull. 40(2):99-04, 1996. PMID: 8724426
2. Delman K, Malek S, Bundz S, Abumrad NN, Lang CH, Molina PE. Resuscitation with Lactated

 Ringer’s Solution After Hemorrhage: Lack of Cardiac Toxicity. Shock 5(4):298-03, 1996. PMID:

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 Morphine and Morphine-6-Glucuronide on Tissue Protein Synthe­sis. ­Am. J. Physiol. 271:619-25,

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1. Cersosimo E, Ajmal M, Naukam RJ, Molina PE, Abumrad NN. Role of the Kidney in Plasma Glucose

 Regulation During Hyperglycemia. Am. J. Physiol. 272:E756-61, 1997. PMID: 9176172

1. Cersosimo E, Molina PE, Abumrad NN. Renal Glucose Production During Insulin-Induced

 Hypoglycemia. Diabetes 46(4):643-46, 1997. PMID: 9075805

1. Molina PE, Williams P, Abumrad NN. Histaminergic Contribution to the Metabolic Effects of

 Neuroglucopenia. Am. J. Physiol. 272:R1918-24, 1997.PMID: 9227608

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 Induced Increases in Tissue Cytokine Content: Associated Neuro-Hormonal and Opioid Alterations. J.

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1. Hashiguchi Y, Molina PE, Boxer R, Abumrad NN. Differential Responses of Brain, Liver and Muscle

 Glycogen to Opiates and Surgical Stress. Surgery Today Jpn. J. Surg. 28(4): 471-74, 1998. PMID:

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1. Cersosimo E, Molina PE, Abumrad NN. Renal Lactate Metabolism and Gluconeogenesis During

 Insulin-Induced Hypoglycemia. Diabetes 47(7):1101-06, 1998. PMID: 9648834

1. Molina PE, Ajmal M, Abumrad NN. Energy Metabolism and Fuel Mobilization: From the Perioperative

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 Hemodynamic and Pro-Inflammatory Responses to LPS. Shock 10(5):329-34, 1998. PMID: 9840647

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 Hemorrhage. Neuroimmunomodulation May‑Jun;6(3):193‑00, 1999. PMID: 1023918

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 Warfare Agents. Nucl Med Biol. 26(2):249-50, 1999. PMID: 10100227

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 Gamma-Vinyl GABA and Cocaine: Preclinical Assessment of Safety. Life Sciences 65:1175-82, 1999.

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 Mice. Science 285(5425):248‑51, 1999. PMID: 10398600

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 44(1):35-40, 2000. PMID: 10893519

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 Locomotor Activity Study. J Pharmacol Exp Ther. 295 (1):51-57, 2000. PMID: 10991960

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 Associated Neuro-Hormonal and Opioid Alterations. Life Sci. 66(5):399-09, 2000. PMID: 1067088

1. Molina, PE and Abumrad NN. Contribution of Excitatory Amino Acids to Hypoglycemic Counter-

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 Metabolic and Cytokine Responses to Hemorrhagic Shock. J Trauma 52(4):675-82, 2002. PMID

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4. LaPlante AM, Griffin PT, Parsons CH, Molina PE, Duff K. RBANS Performance among Patients with HIV: Effect of Demographic and Health-Related Variables. Submitted, Archives of Clinical Neuropsychology, August 2013. PMID.
5. Molina PE. Alcohol Binging Exacerbates Adipose Tissue Inflammation Following Burn Injury. Commentary. In press Alcoholism: Clinical and Experimental Research. August 2013. PMID
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Books

1. Endocrine Physiology, PE Molina, McGraw Hill, 1st edition 300 p. September 19, 2003. ISBN: 0071402578.
2. Endocrine Physiology, PE Molina, McGraw Hill, 2nd edition 296 p. 2006. ISBN: 0071460489.
3. Endocrine Physiology, PE Molina, McGraw Hill, 3rd edition 303 p. 2010. ISBN: 9780071613019.
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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, 1994Molina PE, S Burzstein, Abumrad NN. Energy Expenditure: Theories and Assumption. Determinations in the Clinical Setting. *Crit. Care Clin.* 11:587-601, 1995.
		7. 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.
		8. 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.
		9. 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.
		10. Molina, PE. General Principles of Endocrine Physiology, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN:9780071621731
		11. The Hypothalamus and Posterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		12. Anterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		13. Thyroid Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		14. Parathyroid Gland and Calcium and Phosphate Regulation, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		15. Adrenal Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		16. Endocrine Pancreas, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		17. Male Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		18. Female Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
		19. Endocrine Integration of Energy and Electrolyte Balance, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731

**Non-peer reviewed publications:**

Teenage alcohol use, is it a problem? Published in *Jaynotes,* Jesuit High School’s alumni magazine. This special edition devoted entirely to the issue of teenagers and alcohol won a national Mothers Against Drunk Driving (MADD) Media Award.

**Editorial Activities:**

Review Board:

#### Shock Journal (Associate Editor)

American Journal of Physiology; Endocrinology and Metabolism

Addiction Science & Clinical Practice

International Journal of Clinical and Experimental Medicine

Guest reviewer:

Life Sciences

Journal of NeuroImmunomodulation

Brain Research

Alcohol, Clinical and Experimental Research

Cytokine

Journal of Applied Physiology

Critical Care Medicine

Psychoneuroendocrinology

Journal of Neuroimmunepharmacology

**University service:**

1. Participating host faculty for Minority Research Day.
2. LSUHSC Biomedical Research Fund Review Committee.
3. Reviewer and Judge for Medical Student Summer Research Presentations and Proposals (2001-2004).
4. Judge for Poster and Oral Presentations, Department of Medicine Research Day (2001, 2002, 2003).
5. IACUC (2002-present)
6. Animal Care Advisory Committee (2002-present)
7. MD/PhD Admissions Committee (2003-present)
8. Physiology Graduate Student Committee (2002-2008)
9. Interdisciplinary Program Advisory Committee (2005-present)
10. Advisory Board Clinical Research Center (2003-2005)
11. Diversity Committee (2003-present)
12. Faculty Assembly (2002-2008)
13. Appointments, Promotions, and Tenure Committee (2006-2008)
14. Graduate Advisory Council (2006-present)
15. Communications committee (Chair) 2008-2009
16. LCME Self Study Committee 2008-2009
17. Pathology Chair search committee 2008-2009
18. Panelist for Appointment, Promotion, and Tenure Workshop LSUHSC, 2009, 2010, 2011
19. Surgery Chair search committee (2010-2011)
20. Cardiology Chief search committee (2010-2011)
21. Outreach Committee (2010- present)
22. Strategic Planning Steering Committee (2013-Present)
23. Chair Communications work group (2013-Present)

**Community work:**

1. Councilor for Hispanic American Association of Louisiana (2007-2010)
2. Vice-President Hispanic American Medical Association of Louisiana, Auxiliary (2007-2009)
3. Lector St. Francis Xavier Church, Metairie, LA
4. Board of Directors Council of Alcohol and Drug Abuse Advisory Board for Hispanic Initiative.
5. Speaker on Teenage Alcohol Abuse; Jesuit High School and Cabrini High School (2005-Present).
6. Key note speaker at Jesuit High School Town Hall Meeting, 2005. New Orleans, LA. On alcohol and teenage brain development. Audience, parents of all incoming 8th graders.
7. Chapelle High School Career Day (2008)
8. Community School for Apprenticeship Learning, July 23, 2005 Baton Rouge, LA; "Alcohol Intoxication" talk for a group of 24 seventh graders.
9. St. Margaret Mary Middle School, Slidell LA. October 28th, 2005. What alcohol can do to your brain. Presentation to three sections of 8th graders
10. Radio talk show/interview Radio Tropical, Gretna LA “*Alcoholismo*”.
11. Alcohol and drug abuse prevention workshop. Roosevelt High School, New Orleans, LA. Council of Alcohol and Drug Abuse (CADA) in New Orleans, 2006.
12. Speaker of Science, sponsored by the National Science Foundation. Louisiana middle and high school speaker on females in science and on impact of alcohol on teenage brain.
13. Council at Large, Hispanic American Medical Association of Louisiana (2007-2010).
14. Radio Show “Alcoholismo” **KGLA/Radio Tropical, January 24, 2009.**
15. WLTV4 “Addiction and Obesity” Interview, April 2009.
16. Host for 5th annual LSUHSC School of Graduate Studies and NOLA Public Schools Science Partnership Field trip. May 21, 2009.
17. NOAIDS Task Force “Impacto del alcohol en el progreso del VIH. May 29, 2013.
18. WWL 870 AM, 105.3 FM, and wwl.com, Dr. Patricia Molina was interviewed for news stories on the impact of marijuana use on glucose, insulin, and insulin resistance. May 30, 2013.
19. Radio interview WWL First News (WWL 870 AM, 105.3 FM) with Tommy Tucker

about the NTSB recommendation to lower the alcohol limit for driving. 2013.

1. WWL 870 AM, 105.3 FM, and wwl.com. Interview “Effects of Alcohol on the Body” June 4, 2013

**Outreach activities (graduate students and Physiology Faculty):**

**2007** Ben Franklin Visit to LSUHSC

**2008** New Orleans Recovery School District/LSUHSC Science Partnership Volunteer; Banneker Elementary School, New Orleans, LA; 2 visits to the classroom

         Discussion of my research (alcohol intoxication and hemorrhage)

         Animal adaptations to different environments

         Exercise

**2008** New Orleans Recovery School District/LSUHSC Science Partnership Volunteer; Banneker Elementary School, New Orleans, LA field trip to LSUHSC

         Effects of alcohol on blood pressure (intoxication goggles demonstration)

**2008** Physiology Pun Week participant; Banneker Elementary School, New Orleans, LA

         Discussion on my research (alcohol intoxication and hemorrhage)

         The physiology of exercise (The Elvis Experiment)

**2009** New Orleans Recovery School District/LSUHSC Science Partnership Volunteer; Banneker Elementary School, New Orleans, LA

         Discussion on my research (alcohol intoxication and hemorrhage)

         Nutrition

         Food Groups

**2009** New Orleans Recovery School District/LSUHSC Science Partnership Volunteer; Banneker Elementary School, New Orleans, LA field trip to LSUHSC

         Effects of alcohol on reflexes (intoxication goggles)

**2009** Physiology Pun Week participant; Lake Castle Private School Madisonville, LA

         What is Physiology?

         Blood pressure/Heart rate

**2009** “Para un future major” (for a better future) a program of the Council on Alcohol and

 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

**2013** Lake Castle Private School, Madisonville, LA. Presentation to 3-6th graders “Girls and Boys can be Scientists”. Oct 14, 2013.