

CURRICULUM VITAE

Name:

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Birthdate and Birthplace:

1/4/59 San Salvador, El Salvador

Citizenship

US

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, LSUHC, 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:

Outstanding Graduate Student, LSUMC, New Orleans 1989.
Honorary Consul General of El Salvador, New Orleans (2001-2008)
Organizer and Chair of Consensus Workshop on: Allostatic load and the response to injury and trauma. NIGMS, March 20-21, 2003.
Richard Ashman Professor of Physiology, LSUHSC (2006-Present)
Vice-Chair National Hispanic Science Network on Drug Abuse (2007-Present)
Top Ten Female Achievers, New Orleans Magazine (2007)

Academic, Professional, and Research Appointments:

INSTITUTION	RANK	PERIOD OF APPOINTMENT
LSUHSC, NO	Professor with Tenure	2004-Present
LSUHSC, NO	Associate Professor	09/99-2004
LSUHSC, NO	Gratis Associate Professor	09/97-09/99
North Shore University Hospital, NY	Chief Surgical Research	10/96-09/99
Brookhaven National Lab., NY	Guest Scientist	10/96-09/2000
State University of NY, Stony Brook	Research Associate Professor	05/96-09/96
State University of NY, Stony Brook	Research Assistant Professor	07/92-05/96
Vanderbilt University, Nashville TN	Research Instructor	08/90-06/92

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

Teaching Experience/Responsibilities

1988-1989 Nursing Physiology-Renal Physiology, muscle and parturition lectures (9 hr/yr) LSU.
1989 Allied Health Physiology-Renal physiology and acid-base lectures. (6hr/yr) LSU.
1991 Preceptor for 1st and 2nd year medical students; Introduction to Biomedical Research, Vanderbilt.
1992-1996 Preceptor for Minority High School Summer Research Program, SUNY, Stony Brook.
1993-1996 Preceptor for Undergraduate (EUREKA) and medical students (MD with distinction program), SUNY Stony Brook.
1994-1996 Introduction to Metabolic Research. Summer lecture series, Division of Surgical Research, SUNY Stony Brook.
1996 1st year Medical Nutrition Course; Vitamin and Women's Nutrition Lectures.
2000 Introduction to Clinical Medicine; GI; Back to Basics. Drs. Cassidy & Bagwell. 2h, 2nd year medical students

2000 Graduate Cell Biology Course. 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 Gregory Bagby, Program Director

2001 Allied Health Physiology; Introduction to Endocrine (3 hours), GI physiology (4 h), Gregory Bagby, Course Director.

2002-2003 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-Present Medical Physiology (muscle (2), liver (2), endocrine (12)); Endocrine Physiology Review (2);

2003-Present Graduate Endocrine Physiology (Course Director & lecturer; 3 h credit)

2003-2005 Perspectives in Alcohol Research (Program Coordinator)

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

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

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

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

2005-Present Growth and Development Lecture (3 hours), Dental students

2006-Present Lecturer APS Professional Development Skills Workshops

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

July 1992-May 1993	Khalil Yousef, MD. Stony Brook Surgical Resident
Jan 1994-Dec 1994	Jeroen Meijerink, MD, PhD, Netherlands.
Sept. 1994-Oct. 1996	Samuel Bundz, MD. Stony Brook Surgical Resident
March 1995-Sept. 1995	Shihab Khogali, Md, PhD. Scotland
Aug. 1993-Oct. 1995	Yoshiro Hashiguchi, MD, PhD. Japan
July 1995-June 1996	Sayed Malek, MD, Baharain
July 1998-Sept 1999	Nasim Ahmed, MD, North Shore University Hospital
October 2000-May 2001	Danielle Williams. Xavier University, NOLA.
June 2000-June 2001	Herbert Phelan, MD, LSUHSC
October 2000-2003	Kirsten Zambell, PhD, LSUHSC
January 2002-2005	Diego Niño, MD, Graduate Student LSUHSC
September 2002-03	Muñeca Slade, Undergraduate student
July 2004-Present	Keisa Williams Mathis, MS, Graduate Student LSUHSC
July 2004-2005	Jaquelin Varela, Graduate Student, LSUHSC
June-August 2004	Ze Zhang, Undergraduate summer research
July 2005-2007	Patrick Greiffeinstein, MD, Post-doctoral fellow
June-August 2005	O'Keith Dellafosse, Medical student summer research
June-August 2005	Jeremy Daigle, Medical student summer research
June-August 2005	Rachel Rider, Undergraduate summer research
October 2006-April 2007	Tiffany Best, Undergraduate research
April 2007-Present	Any Whitaker, graduate student
May 2007-Present	Jesse Sulzer, MD/PhD student

Grants & Contracts:

MOLINA, PE

ACTIVE

R01 NIAAA 13543-05 (Molina) 7/1/2002 – 6/30/2008 2.4 calendar
NIAAA \$309,964/yr

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.

RO1 DA020419-01 (Molina) 8/7/06 - 3/31/11 2.4 calendar
NIDA \$482,055/yr

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.

3 R01 DA020419-02S1 (Molina) 8/10/06 – 3/31/11 0.6 calendar
NIDA \$115,000/yr

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) 4/3/06-4/2/10 2.4 calendar
Department of Defense \$100,647/yr

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.

P60 AA009803-06 (Nelson, S.) 12/1/03-11/30/08 0.6 calendar
Alcohol, HIV Infection and Host Defense
NIH/NIAAA \$2,000,000/yr

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.

P20 RR016816-06 (Bazan, N.) 02/01/07 – 01/31/12 1.2
calendar
NIH/NCRR \$1,614,799/yr

Mentoring Neuroscience in Louisiana

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

P20 RR018766-05 (Kapusta, D.) 09/01/03 – 06/30/08 1.2 calendar
NIH/NCRR \$1,464,078/yr

Mentoring in Cardiovascular Biology

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

NSF(2008) PFund 103 (Molina) 04/01/08 – 03/31/09 0.6 calendar
Board of Reagents \$10,000/yr
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.

Pending:

R13 NIAAA00448747 (Molina) 9/1/2008-8/30/2009 0.6 calendar
NIAAA \$100,000/yr
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.

Completed:

1R13GM080954-01 (Kovacs)
Role in Project: Co-Investigator and Organizer
Alcohol and Trauma 06/01/07 – 05/31/08
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)
Alcohol Research Planning and Development Program 04/01/03-03/31/06
Role in Project: Co-investigator
\$ 248,105
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.

Louisiana Health Excellence Fund (Shellito) 6/1/00-5/31/05
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)
Alcoholism and Disease: Immune and Pathological Mechanisms 10/1/01-9/31/02
The goal of this project was to organize two symposia at the Experimental Biology meeting in New Orleans in 2002.

NOO014-97-1-0248 (Molina) 2/1/97 - 1/31/06
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) 8/1/93 - 7/31/97

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 β -endorphin and non-peptide opioid alkaloids during the stress of surgery and trauma.

Pilot and Feasibility Project (Molina)

Clinical Nutrition Research Unit, Vanderbilt

1/1/91-31/12/92

Ethanol-thiamine interactions in energy metabolism.

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

RO1-DK-42562S1 (Abumrad)

Proteolysis in hypoglycemia - impact of CNS.

2/01/92 - 6/30/96

PI Supplement for underrepresented minorities.

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

Bel 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-Present

Appointments, Promotions and Tenure Committee

2004-Present

Diversity Committee

Extramural appointments or offices held

Councilor APS Endocrine and Metabolism section (2002-2008)

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-Present)

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)

Review Activities

Member NIAAA Board of Scientific Counselors (2002-2006)

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

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

Permanent member Biomedical Research Review Subcommittee AA-11 (2007-2010)
Reviewer Pathogenesis of NeuroAIDS and Alcohol Abuse ZAA1 BB (8/2007)

Scientific presentations

Molina, PE and J. Downey. Oxyradical mediate injury occurs on reperfusion of ischemic rabbit heart. Abstract, FASEB. 46:831, 1987.

Molina, PE, NB D'Souza, CH Lang, GJ Bagby, JJ Spitzer. Ethanol administration blunts the bacterial endotoxin-induced increases in glucose metabolism. Research Society of Alcoholism Scientific Conference, June 1988, Beaver Creek, Colorado.

Molina PE, CH Lang, GJ Bagby, JJ Spitzer. 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.

Molina PE, CH Lang, GJ Bagby, JJ Spitzer. 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 lipopolysaccharide (LPS). 4th Congress on the Immune Consequences of Trauma, Shock and Sepsis. March 4-8th, 1997. Munich, Germany.

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

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

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, October 25-30th, 1997. New Orleans, LA.

Sympathetic Modulation of hemorrhage-induced increase in tissue cytokines. Inflammation and the Surgical Patient: Mechanisms and therapy in trauma and burns. Snowbird Utah, January 31-Feb 4, 1998.

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

Endotoxicosis and Hemorrhage; Tissue Cytokine and Associated Neuro-Hormonal and Opioid Alterations. 21st Annual Conference on Shock, June 14-17th, 1998. San Antonio, TX

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 on 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, Feb 29-March 4th, 2000.

The role of opiate and serotonin pathways in the stress/septic response. 23rd Annual Conference on Shock. June 3-6th, 2000 Snowbird Utah. (Session chair and speaker). Organizer, Chair and Speaker Comorbidity of Alcohol and Other Pathologic States Research Society of Alcoholism, June 29, 2000. Denver Colorado.

Organizer for Cytokines & the Brain, A Satellite Symposium for the Neuroscience 30th Annual Meeting, November 2-4th, 2001. Cytokines in ischemia: neurotoxic or neuroprotective? Overview and Introduction. Cytokines and the Brain II, satellite symposium to the Society of Neuroscience 30th annual meeting. New Orleans, LA November 2-4, 2000. (Organizer, Chair and Introductory speaker of session).

Stress-specific opioid modulation of hemodynamic responses FASEB Symposium. Cardiovascular effects of opioid peptides (chaired by Dr. Dan Kapusta). Orlando, Fla. 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 & Chair Roundtable Discussion: Molecular pathology and clinical aspects of alcohol-induced tissue injury. Research Society of Alcoholism June 24, 2001, Montreal Canada.

Metabolic and Inflammatory contribution of Alcohol to Trauma-Induced Tissue Injury. In session: Molecular Pathology and Clinical Aspects of Alcohol-induced Tissue Injury (Organizer, Chair and speaker) 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? April 20, 2002 New Orleans, LA. Sponsored by the International Society for NeuroImmunoModulation.

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

Morphine modulation of inflammatory responses to hemorrhage, ATACCC, St. Petersburg, Florida 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, May 9th, 2003. Universidad Francisco Marroquin, Guatemala, CA.

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

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

Acute alcohol intoxication alters the neuroendocrine response to fixed volume hemorrhage in rats. Research Society for Alcoholism, Ft. Lauderdale, Fla., 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 Fla. September 18-20, 2003.

Contribution of analgesia to impaired outcome from trauma/hemorrhage. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg Fla. 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, CA Oct 29, 2003.

Consequences of alcohol-induced dysregulation of immediate hemodynamic and inflammatory responses to trauma/hemorrhage. Alcohol and Immunology Research Interest Group (AIRIG) November 21, 2003. Organizer: Dr. Elizabeth Kovacs. Loyola University Medical Center, Maywood IL.

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, CA. June 7, 2004

Chronic alcohol impact on SIV-associated wasting. Research Society for Alcoholism, Vancouver, CA, 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. July 15th, 2005 Woods Hole, Massachusetts.

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

Neurobiology of the Stress Response, August 20, 2005, Second National Conference on Drug Abuse. San Juan, Puerto Rico.

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

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

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

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

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*, April 3rd, 2005. San Diego, CA.

Organizer and Chair, National Hispanic Science Network on Drug Abuse Conference, Stress and Drug Abuse, from molecule to neighborhood. Miami, Fla from September 13-17, 2005.

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

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

Impact of Stress of Drug Abuse. Drug abuse and addiction meeting, November 2-6, 2005. Valencia Spain.

Role of genes and stress on drug addiction. Congress of drug abuse. November 2nd to 6th, 2005. Valencia, Spain

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

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

Impact of acute moderate alcohol intoxication on outcome from hemorrhage. *Experimental Biology*, San Francisco, 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. Saturday, April 29th, 2006. Guadalajara, Mexico.

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

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

Chair National Hispanic Science Network Scientific Conference; Drug Abuse and HIV/AIDS, Phoenix Arizona, 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, Utah 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, 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.

Refereed Journal Publications:

1. Molina PE, CH Lang, GJ Bagby, NB D'Souza, JJ Spitzer. Ethanol administration diminishes the endotoxin-induced increases in glucose metabolism. *Alcoholism Clin. Exp. Res.* 13:407-412, 1989.
2. Molina PE, CH Lang, GJ Bagby, JJ Spitzer. Ethanol Attenuates Endotoxin-Enhanced Glucose Utilization. *Am. J. Physiol.* 258: R987-R993, 1990.

3. Molina PE, CH Lang, GJ Bagby, JJ Spitzer. Ethanol oxidation is not required for ethanol to attenuate endotoxin-enhanced carbohydrate metabolism. *Am. J. Physiol.* 260: R1058-R1065, 1991.
4. Lang CH, PE Molina, NN Abumrad. Granulocyte colony-stimulating factor prevents ethanol-induced impairment in host defense in septic rats. *Alcoholism Clinical and Experimental Research* 17:1268-1274, 1993.
5. Molina PE, KE Tayeb, H Hourani, K Okamura, P Williams, NN Abumrad. Hormonal and metabolic effects of neuroglucopenia. *Brain Res.* 614:99-108, 1993.
6. Lang CH, PE Molina, KA Yousef, PG Tepper, NN Abumrad. Role of IL-1a in central nervous system immunomodulation of gluco-regulation. *Brain Res.* 624:53-60, 1993.
7. Lang CH, PE Molina, N Skrepnick, GJ Bagby, JJ Spitzer. Epinephrine-induced changes in hepatic glucose production after ethanol. *Am J. Physiol.* 266:E863-E869, 1994.
8. Molina PE, PG Tepper, KA Yousef, NN Abumrad, CH Lang. Central NMDA enhances hepatic glucose output and non-insulin-mediated glucose uptake by a noradrenergic mechanism. *Brain Res.* 634:41-48, 1994.
9. Yousef KA, PG Tepper, PE Molina, NN Abumrad, CH Lang. Differential regulation of stress hormone response and glucose metabolism by NMDA and Kainate. *Brain Res.* 634:131-140, 1994.
10. Molina PE, CH Lang, KA Yousef, PG Tepper, NN Abumrad. Thiamine deficiency impairs endotoxin-induced increase in hepatic glucose metabolism. *Am. J. Clin. Nutr.* 59:1045-1049, 1994.
11. Molina PE, N Myers, RM Smith, CH Lang, KA Yousef, PG Tepper, NN Abumrad. Nutritional and metabolic characterization of a thiamine-deficient model. *J. Parent. Ent. Nutr.* 18:104-111, 1994.
12. Molina PE, Y Hashiguchi, M Ajmal, M Mazza, NN Abumrad. Differential hemodynamic, metabolic and hormonal effects of morphine and morphine-6-glucuronide. *Brain Res.* 664:126-132, 1994.
13. Molina PE, NN Abumrad. Gut derived proteolysis during insulin-induced hypoglycemia; The pain that breaks down gut. *J. Parent. Ent. Nutr.* 18:549-556, 1994.
14. Molina PE, NN Abumrad. Metabolic effects of opioid peptides and opiate alkaloids. *Adv. Neuroimmunology* 4:105-116, 1994.
15. Petit F, A Jarrous, RD Dickinson, PE Molina, NN Abumrad, CH Lang. Contribution of central and peripheral adrenergic stimulation to IL-1a-mediated gluco-regulation. *Am J. Physiol.* 267:E49-E56, 1994.
16. Molina PE, K Jabbour, P Williams, NN Abumrad. Effect of acute ethanol intoxication on gluco-regulation during prolonged insulin-induced hypoglycemia. *Am. J. Physiol.* 267:R1280-R1287, 1994.
17. Fan J, PE Molina, MC Gelato, CH Lang. Differential tissue regulation of insulin-like growth factor-1 content and binding proteins after endotoxin. *Endocrinology* 134:1685-1689, 1994.
18. Molina PE, Y Hashiguchi, J Meijerink, R Boxer, R Naukam, NN Abumrad. Modulation of endogenous opiates; effect of fasting. *Biochim. Biophys. Res. Comm.* 207:312-207317, 1995.
19. Abumrad NN, S Kim, PE Molina. Regulation of gut glutamine metabolism: role of hormones and cytokines. *Proc. Nutr. Soc.* 54:525-533, 1995
20. Hashiguchi Y, PE Molina, NN Abumrad. Morphine-3-glucuronide: hyperglycemic and neuroendocrine potentiating effects. *Brain Res.* 694:13-20, 1995.
21. Hashiguchi Y, PE Molina, NN Abumrad. Modulation of metabolic effects of morphine-6-glucuronide by morphine-3-glucuronide. *Brain Res. Bull.* 38:325-329, 1995.
22. Bundz S, PE Molina, CH Lang, NN Abumrad. Endogenous opiates do not modulate the LPS-induced alterations in glucose metabolism. *Shock* 4(6): 397-402, 1995.

23. Molina PE, G Tiao, J Meijerink, PO Hasselgren, NN Abumrad. Sepsis-induced increase in brain endogenous morphine: regulator of proteolysis. *Surg. Forum XLVI*; 4-6, 1995.
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Books

1. *Endocrine Physiology*, P.E. Molina, McGraw Hill, 300 p. September 19, 2003. ISBN: 0071402578.
2. *Endocrine Physiology*, PE Molina, McGraw Hill, 296 p. 2006. ISBN: 0071460489.

Chapters:

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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, P 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, NN Abumrad. Hypothalamus, glucopenia and fuel mobilization. In: Organ metabolism and nutrition: ideas for future critical care. Eds. J.M. Kinney, H.N. Tucker. pp 69-90, 1994
Molina PE, S Bursztein, NN Abumrad. 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.

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

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

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-present)
9. Interdisciplinary Program Advisory Committee (2005-present)
10. Advisory Board Clinical Research Center (2003-present)
11. Diversity Committee (2003-present)
12. Faculty Assembly (2002-present)
13. Appointments, Promotions, and Tenure Committee (2006-present)
14. Graduate Advisory Council (2006-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, September 9, 2005. New Orleans, LA. On alcohol and teenage brain development. Audience, parents of all incoming 8th graders.
7. Chapelle High School Career Day.
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).