

**CURRICULUM VITAE**

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

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

**Business Address:** Department of Physiology  
1901 Perdido Street, P7-3  
New Orleans, LA 70112

**Business Telephone:** (504) 568-6187

**Business Fax:** (504) 568-6158

**E-mail:** [pmolin@lsuhsc.edu](mailto:pmolin@lsuhsc.edu)

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

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

**Languages:** English, Spanish and French

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

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

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

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

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

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

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

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

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

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

**Membership in Professional Organizations:**

American Association for the Advancement of Science  
American Physiological Society (President, 2015)  
Association for Women in Science (AWIS), Southern Louisiana Chapter  
Association of Chairs of Departments of Physiology (ACDP)  
Endocrine Society  
International Cannabinoid Research Society  
International Society for Biomedical Research on Alcoholism  
International Society for Neuroimmunomodulation  
International Union of Physiological Sciences (IUPS) (Treasurer, 2018)  
National Hispanic Science Network on Drug Abuse (Chair, 2010–Pres.)  
Research Society on Alcoholism  
Shock Society  
Society for Leukocyte Biology  
Society of Neuroimmunopharmacology

**TEACHING EXPERIENCE AND RESPONSIBILITIES**

**Formal Course Responsibilities:**

1988–1989	Lecturer. Physiology—Renal Physiology, Muscle and Parturition (9 h) LSUHSC School of Nursing
1989	Lecturer. Physiology—Renal; Physiology and Acid–Base (6 h) LSUHSC School of Allied Health
1991	Preceptor for 1 <sup>st</sup> /2 <sup>nd</sup> year medical students. Introduction to Biomedical Research Vanderbilt University
1992–1996	Preceptor for Minority High School Summer Research Program. SUNY Stony Brook
1993–1996	Preceptor for undergraduate (EUREKA) and medical students (MD with distinction program) SUNY Stony Brook
1994–1996	Summer Lecture Series: Introduction to Metabolic Research SUNY Stony Brook, Division of Surgical Research
1996	Vitamin and Women’s Nutrition Lectures. 1 <sup>st</sup> year Medical Nutrition Course
2000	Introduction to Clinical Medicine; GI; Back to Basics. Medical students (2 <sup>nd</sup> year) (2 h) Course Directors: Drs. Cassidy & Bagwell.
2000	Graduate Cell Biology: Signal Transduction and Cell Signaling (2 h) Course Director: C. Hornick
2001	Medical Physiology, Introduction to Endocrinology, Hypothalamus (3 h) Course Director: H. Miller
2001	Alcohol Research Center Training Program: Alcohol and Trauma (1 h) Program Director: G. Bagby
2001	Allied Health Physiology: Introduction to Endocrine (3 h); GI physiology (4 h) Course Director: G. Bagby
2002–2003	Graduate Cell Biology Course. Signal Transduction and Cell Signaling (3 h) C. Hornick, Course Director, Medical Physiology. Muscle Lectures (2 h & lab), Liver lectures (2 h), Endocrine introduction, hypothalamus, pituitary, thyroid, parathyroid, adrenal (7 h)
2003–Pres.	Medical Physiology ANS and muscle (4 h), liver (3 h), endocrine (14 h); Endocrine Physiology Review (2 h)
2003–Pres.	Course Director/Lecturer. Graduate Endocrine Physiology (3 h)
2003–2005	Program Coordinator, Perspectives in Alcohol Research
2005–Pres.	Course Director/Lecturer. Medical Spanish Elective (Spring) (2 h)
2005–2016	Course Director/Lecturer. Perspectives in Alcohol Research Elective (1 h)
2005–2015	Course Director/Lecturer. Endocrine Course Block for Biological Systems (Interdisciplinary program)
2005–2015	Lecturer. Growth and Development, Aging (4 h). School of Dentistry.
2006–2012	Lecturer. Endocrine Pathophysiology Nursing (3 h, twice/year) and CARE programs (3 h, twice/year)
2017	Course Director/Lecturer. MCLIN 238-Disease and Therapy of the Reproductive and Endocrine Systems

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

2002–2003	Muñeca Slade
2004	Ze Zhang, Undergraduate Summer Research
2005	Rachel Rider
2006–2007	Tiffany Best
2008–2009	Tesslyn Land, Xavier University

2009 Chris Hakenjos  
 2011–2013 Emily Rogers  
 2012 Louis Monnig, Undergraduate Summer Research  
 2012 Eric Stockwell, Undergraduate Summer Research  
 2012 Laura Decker, Undergraduate Summer Research  
 2013 Claire Franklin, Undergraduate Summer Research  
 2013 Mohammed Elaasar, Undergraduate Summer Research  
 2013–2015 Parth Thaker, Undergraduate Summer Research  
 2014 Mentor of mentor for: Sarah Oberhelman, Undergraduate Summer Research  
 2014 Mentor of mentor for: Zachary Melchiodi, Undergraduate Summer Research  
 2014 Mentor of mentor for: Alana Williams, Undergraduate Summer Research  
 2014 Mentor of mentor for: Olivia Leonovicz, Undergraduate Summer Research  
 2015 Mentor of mentor for: Gabe Navar, Undergraduate Summer Research  
 2015 Mentor of mentor for: Jacob Elnaggar, Undergraduate Summer Research  
 2015 Vienna Benavides, Undergraduate Summer Research  
 2016 Mentor of mentor for: Alyssa Guillory, Undergraduate Summer Research  
 2016 Mentor of mentor for: Wolfe Waguespack, Undergraduate Summer Research  
 2016 Mentor of mentor for: Ishan Basu Ray, Undergraduate Summer Research  
 2016 Mentor of mentor for: Garth Cook, Undergraduate Summer Research  
 2016 Mentor of mentor for: Peter Sayde, Undergraduate Summer Research  
 2016 Mentor of mentor for: Sarah Stender, Undergraduate Summer Research  
 2016 Mentor of mentor for: Rahib Islam, Undergraduate Summer Research  
 2017 Mariza Francis, Undergraduate Summer Research  
 2018 Ryan Hoffman, Undergraduate Summer Research (1<sup>st</sup> place Research Day poster)  
 2018–2019 Peter Winsauer, Undergraduate Summer Research  
 2019–2020 Shalom Gómez Pulgarín, International Exchange Student, University of Antioquia (GIC) Infection and Cancer Group, Colombia (11/2019-03/2020)

**Graduate:**

**MD:**

2002–2005 Diego Niño, MD  
 2005 O'Keith Dellafosse, Medical Student Summer Research  
 2005 Jeremy Daigle, Medical Student Summer Research  
 2012 Daniel Punecky, Medical Student Summer Research  
 2015 Gabriela Squeo, Medical Student Summer Research  
 2016 Cody Blackwelder, Medical Student Summer Research  
 2016 Zachary Stielper, Medical Student Summer Research  
 2016 Kelsey Cage, Medical Student Summer Research

**PhD:**

2000–2001 Danielle Williams, PhD, Xavier University  
 2004–2009 Keisa Williams Mathis, MS, PhD Student, LSUHSC  
 2008–2010 Edith Walker, LSUHSC  
 2007–2012 Annie Whitaker, PhD, LSUHSC  
 2013–2017 Jacques Mayeux, MS, PhD, LSUHSC  
 2013–2017 John Maxi, PhD, LSUHSC  
 2015–2016 Marta Moya Montes (ARGO Exchange Program, 12/2015-05/2016)  
 2017–2018 Laura Monteagudo Romero (ARGO Exchange Program)  
 2017–2018 Paul Stoulig, LSUHSC  
 2018–Pres. Derrick Samuelson, PhD, LSUHSC, K99/R01 (2018-2020)

2019–Pres. Jonquil Poret, MS, PhD candidate LSUHSC  
2020–Pres. Alexandra Denys, PhD candidate (co-mentor)  
2020–Pres. Jessica Cucinello, PhD candidate (co-mentor)

**MD/PhD:**

2007–2013 Jesse Sulzer, MD/PhD, LSUHSC  
2011–2014 Sophie Teng, MD/PhD, LSUHSC  
2013–2015 Whitney Nichols, MD/PhD, LSUHSC (co-mentor)  
2015–2017 Allyson Schreiber, MD/PhD, LSUHSC (co-mentor)  
2015–2017 Stephen Ford, MD/PhD, LSUHSC  
2016–Pres. Zachary Stielper, MD/PhD candidate (co-mentor)  
2017–Pres. Vincent Maffei, MD/PhD candidate (co-mentor)  
2017–Pres. Brittany Foret, MS, MD/PhD candidate, LSUHSC (Summer Intern, 2017)  
2020–Pres. Brianna Bourgeois, MD/PhD candidate (co-mentor)

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

1992–2003 Khalil Yousef, MD, Stony Brook Surgical Resident  
1994–1995 Jeroen Meijerink, MD/PhD, Netherlands  
1994–1996 Samuel Bundz, MD, Stony Brook Surgical Resident  
1993–1995 Yoshiro Hashiguchi, MD/PhD, Japan  
1995–1996 Sayeed Malek, MD, Baharain  
1995 Shihab Khogali, MD/PhD, Scotland  
1998–1999 Nasim Ahmed, MD, North Shore University Hospital  
2000–2001 Herbert Phelan, MD  
2000–2003 Kirsten Zambell, PhD  
2005–2007 Patrick Greiffeinstein, MD  
2010–2015 Flavia Souza-Smith, PhD  
2012–2014 Tracy Dodd, PhD  
2012–2014 Megan Armstrong-Lipe, PhD  
2012–2015 Paige Katz, PhD  
2012–2016 Annie Whitaker, PhD (co-mentor)  
2014–2016 Christy Itoga, PhD (co-mentor)  
2015–2016 Karina Villalba, PhD  
2015–2017 Anthony Duplanty, PhD  
2017–Pres. Elizabeth Fucich, PhD (F32 2018–)  
2017–Pres. Frances Ernst, PsyD (co-mentor)  
2018–2019 Derrick Samuelson, PhD, LSUHSC, K99/R01 (2018-2020)  
2019–Pres. Maria Alejandra Jacotte, PhD, LSUHSC  
2019–Pres. Danielle Levitt-Budnar, PhD  
2019–Pres. Patrick McTernan, PhD, LSUHSC

**Medical Student Honors Program:**

2020 Michael Dubic  
2020 Brittany Foret  
2020 Jeanette Zavala

**Additional Mentoring:**

**Highschool Students:**

2009 Sophie Giberga  
2013 Jackie Spangenberg

**Junior Faculty:**

2001–2002	Kris Norenberg, PhD, Assistant Professor, Xavier University
2004–2005	Joseph Olubadewo, PhD, Xavier University
2011–2015	Robert W. Siggins, PhD, LSUHSC, K99/R00
2013–Pres.	Simon, Liz, MVSc, PhD, Assistant Professor-Research (K01 mentor)
2015–Pres.	Frank Lau, MD, Assistant Professor of Clinical Surgery, LSUHSC ( <i>as needed</i> )
2015–2017	Tracey Knaus, PhD, Assistant Professor of Clinical Neurology, LSUHSC
2015–Pres.	Flavia Souza-Smith, PhD, Instructor/ LSUHSC (K01 2019–; Assistant Professor 2019–)
2015–2019	Sarah Jolley, MD, MSc, LA CaTS Roadmap Scholar, LSUHSC
2018–Pres.	Luther Gill, DPT, PhD, Assistant Professor of Physical Therapy, LA CaTS Roadmap Scholar, LSUHSC

**Thesis and Dissertation Committees (recent):**

Alicia Ray Botello	Physiology	MS	May 2017
Whitney Nichols	Microbiology	MD/PhD	Summer 2015
Jacques Mayeux	Physiology	PhD	Fall 2016
John Maxi	Physiology	PhD	Fall 2016
Stephen Ford	Physiology	MD/PhD	Fall 2016
Allyson Schreiber	Physiology	MD/PhD	Spring/Summer 2017
Katherine Adler	Physiology	MS	May 2019
Zachary Stielper	Physiology	MD/PhD	May 2020
Matthew Herrera	Physiology	MS	May 2020

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

1989	Outstanding Graduate Student, Louisiana State University Medical School
2001–2008	Honorary Consul General of El Salvador, New Orleans, LA
2003–2009	Councilor, Endocrine and Metabolism Section, American Physiological Society
2004–2006	Councilor, Basic Science Section, Shock Society
2005–2007	Chair, International Committee, American Physiological Society
2008–2001	Chair, Porter Development Committee, American Physiological Society
2008–Pres.	Richard Ashman, PhD, Professor of Physiology, LSUHSC
2009	Inaugural Lecturer, Universidad Francisco Marroquín Medical School
2009	Speaker, NIH National Hispanic Heritage Month Observance
2010–2012	Councilor, Association of Chairs of Departments of Physiology
2010–2013	Councilor, American Physiological Society
2007–2010	Vice Chair, National Hispanic Science Network on Drug Abuse
2010–Pres.	Chair, National Hispanic Science Network on Drug Abuse
2014–2016	Executive Board, American Physiological Society (President, 2015)
2015	Distinguished Service Award, APSelect (American Physiological Society)
2015	Nominated for the Association of American Physicians
2015	Named Fellow American Physiological Society (FAPS)
2016	Travel Award, NIAAA ISBRA R13 Travel Support for 2016 World Congress on Alcohol and Alcoholism in Berlin, Germany
2016	Endowed Lectureship, A. Ross McIntyre Cardio-Renal Seminar Series, Department of Cellular and Integrative Physiology, University of Nebraska Medical Center
2017	Mayerson-DiLuzio Distinguished Lecturer Award, Tulane University Department of Physiology

- 2018 Dr. Herbert and Nicole Wertheim Leadership in Healthcare and Medicine Lectureship, Florida International University, February 7, 2018
- 2018 Research Smentorociety on Alcoholism (RSA) Seixas Award for extraordinary service in advancing alcohol research, June 2018
- 2018 Pioneer in Addiction Research Award. Frontiers in Addiction Research and Pregnancy. Morehouse School of Medicine. Atlanta, GA. October 12, 2018.
- 2020 Elected Member, Academy of Sciences of Latin America (Academia de Ciencias de América Latina; ACAL)
- 2020 Ruth L. Kirschstein (RLK) Memorial Lecturer, 20th Building Interdisciplinary Research Careers in Women's Health (BIRCWH) program of the NIH Office of Research on Women's Health (ORWH). [Virtual due to COVID-19]. December 14, 2020
- 2021 Featured in "Scientist Spotlight" of NIH's Office of Research on Women's Health (ORWH) publication, [Women's Health in Focus](#)

**Teaching/Mentoring**

- 2012 Excellence in Mentorship Award, National Hispanic Science Network
- 2016 Aesculapian Excellence in Teaching Award, LSUHSC
- 2017 A. Clifford Barger Underrepresented Minority Mentorship Award, American Physiological Society (APS)
- 2018 Invited to confer white coats to the Class of 2021, LSUHSC School of Medicine
- 2020 Jack Hines Memorial Award for outstanding commitment to the LSUHSC-NO School of Graduate Studies. November 2020

**Community**

- 2007, 2015 Top Ten Female Achievers, New Orleans Magazine
- 2011 Louisiana Pathfinder Award
- 2011 Featured in Latinas in STEM careers, Latina Style Magazine
- 2016 Kentucky Colonel, commissioned by the Honorable Order of Kentucky Colonels
- 2020 Invited Keynote Lecturer, New Orleans VA Medical Center's Federal Women's Equality Day. [Virtual due to COVID-19]. December August 28, 2020.

**National Committee Service**

- 2002–2006 Member, NIAAA Advisory Board for Intramural Research
- 2003 Organizer and Chair, Consensus Workshop: Allostatic Load and The Response to Injury and Trauma, National Institute of General Medical Studies Center
- 2004 Member, NIDA Minority Health Disparities Work Group
- 2004–2007 Member at Large, US National Committee for the International Union of Physiological Sciences
- 2007–2011 Reviewer, Biomedical Research Review Subcommittee of the National Institute on Alcohol Abuse and Alcoholism (NIAAA) Initial Review Group (AA-1), NIH (Chair, 2009-2011)
- 2012–2016 Member, National Advisory Council, National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism
- 2017 Reviewer, NIH/NIAAA Special Emphasis Panel P50 Center Reviews, ZAA1 JJ (57) & ZAA1 JJ (58), June 20-21
- 2017–Pres. Reviewer, Biomedical Research Review Subcommittee of the National Institute on Alcohol Abuse and Alcoholism (NIAAA) Initial Review Group (AA-1), NIH (July 1, 2017-June 30, 2021), Permanent Member
- 2017 Reviewer, Department of Defense - Congressionally Directed Medical Research Programs (CDMRP) - PRMRP PRE-ETTR RTA; PRMRP DIS-ETTR

2017	Reviewer, RFADA18-001: NIDA Avant Garde Award Program for HIV/AIDS and Drug Use Research (DP1)
2018	Presenter, NIH/NIAAA-NIDA Diversity Supplements Workshop, T32 Directors Panel (March 12-13)
2018	Member, Council Working Group on Increased Diversity in the Scientific Workforce, NIH/NIAAA
2018	Member, NCAA Working Group on Diversity and Health Disparities (October 2)
2019	Reviewer and participant in review panel and plenary session, Department of Defense - Congressionally Directed Medical Research Programs (CDMRP) - PERC-1 (August 4-6; Reston, VA)
2019	Reviewer, Estonian Research Council (ETAg) grants

## **RESEARCH AND SCHOLARSHIP**

### **Grants and Contracts:**

#### **ACTIVE:**

R25 NS114309 (Multi-PI; Augustus-Wallace)	01/02/2019–12/31/2024	0.00 calendar
NIH/NINDS	\$153,583/year	
Inspiring Diversity to Explore the Brain in the 21st Century: The NIH/NINDS/LSUHSC-NO, Undergraduate Diversity in Neuroscience Research Experiences. This program leverages multi-university partnerships to provide structured mentored research experiences in neuroscience to undergraduate students from underrepresented/underserved populations in Louisiana.		
Role: Co-Principal Investigator/Mentor		
R01 MH119919 (Moitra; Brown Univ.)	12/03/2019–11/30/2024	0.60 calendar
NIH/NIMH	\$103,789/year	
Brief Acceptance-Based Retention Intervention For Newly Diagnosed HIV Patients		
The objective is to conduct a fully powered, randomized controlled trial (RCT) to assess the efficacy of a brief, 2-session acceptance-based behavioral therapy (ABBT) intervention to enhance retention in HIV care.		
Role: Co-Investigator/Site Principal Investigator (Subcontract)		
UH3 AA026206 (Celio, Monti; Brown Univ)	09/20/2017–08/31/2022	0.24 calendar
NIH/NIAAA	\$12,052/year	
Translational Methods for Developing and Testing a Multi-Target Brief Intervention to Reduce Alcohol Use and Increase ART Adherence among Racially Diverse PLWH		
The aim of the project is to improve health of people living with HIV and to reduce the spread of HIV.		
Role: Site Principal Investigator (Subcontract)		
R13 DA026647 (Molina)	03/01/2009–05/31/2024	0.17 calendar
NIH/NIDA	\$75,000/year	
National Hispanic Science Network on Drug Abuse (NHSN) Annual Conference		
This grant supports the annual NHSN Conference, which promotes bidirectional translational research ranging from bench to community and a transdisciplinary cross-fertilization of ideas among scientists from all fields of drug abuse.		
Role: Principal Investigator/Director		
T32 AA007577 (Molina)	09/01/2009–08/31/2024	0.00 calendar



NIH/NIAAA \$402,449/year  
Biomedical Alcohol Research Training Program  
The goal is to educate and train pre and postdoctoral fellows pursuing MD and/or PhD degree(s) for careers as independent scientists in the field of alcohol research.  
Role: Principal Investigator/Director

UH3 AA026198 (Molina) 09/15/2017–08/31/2021 0.60 calendar  
NIH/NIAAA \$193,941/year  
Alcohol & Metabolic Comorbidities in PLWHA; Evidence-Driven Interventions  
Studies aim to test the efficacy of an exercise intervention in improving glycemic control. Results will inform larger scale interventions to ameliorate metabolic comorbidities, improve health, quality of life, and possibly decrease hazardous alcohol drinking.  
Role: Principal Investigator

UH2 AA026226 (Welsh, Molina) 09/15/2017–08/31/2022 0.20 calendar  
NIH/NIAAA \$200,750/year  
Precision Medicine Approaches for Alcohol and HIV-associated Dysbiosis, Immune Activation and Cardiometabolic Syndrome  
Cardiovascular and metabolic comorbidities are common in people living with HIV, particularly those that drink excessive amounts of alcohol. The objective of this study is to develop prebiotic and/or probiotic treatments for these patients based on each person's mixture of bacteria in their intestine.  
Role: Co-Principal Investigator

P60 AA009803 (Molina) 12/01/2014–11/30/2024 2.51 calendar  
NIH/NIAAA \$1,517,259/year  
LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center (CARC)  
The purpose of this administrative supplement is to investigate the impact of COVID-19-related stress on psychiatric and medical comorbidities, drinking behavior, and risk for comorbidities in persons living with HIV and HIV seronegative subjects enrolled in the New Orleans Alcohol and HIV study.  
Role: Principal Investigator/Director

P60 AA009803-27S1 (Molina) 07/01/2020–11/30/2020 0.00 calendar  
NIH/NIAAA \$10,000/year  
LSUHSC-NO CARC NIAAADA Administrative Supplement  
The goals are to organize, clean, and standardize data from CARC clinical translational studies of alcohol use disorder PLWH that include questionnaire, physical exam, clinical lab, and functional performance test variables from human subjects over five years to those of the NIAAA Data Archive (NIAAADA) data variables and definitions.  
Role: Principal Investigator/CARC Director

P60 AA009803-27S3 (Molina) 09/10/2020–11/30/2020 0.00 calendar  
NIH/NIAAA \$74,815/year  
LSUHSC-NO CARC Administrative Supplement Research Component 1 (RC1) Comprehensive Alcohol Research Center. Community and Interpersonal Stress, Alcohol, and Chronic Comorbidities among PLWH.  
This administrative supplement investigates the impact of COVID-19 related stress on psychiatric and medical comorbidities, drinking behavior, and risk for comorbidities in persons living with HIV and HIV seronegative subjects enrolled in the New Orleans Alcohol and HIV study.  
Role: Principal Investigator/CARC Director

P60 AA009803-28S1 (Molina) 04/01/2021–11/30/2021 0.00 calendar  
 NIH/NIAAA \$250,000/year  
 Alzheimer's Associated Neuropathology; Risk Modification by Alcohol in Antiretroviral-Treated SIV-Infected Rhesus Macaques  
 Lifestyle factors in people living with HIV may increase risk for Alzheimer's disease (AD)-associated neuropathology. SIV-infected Rhesus macaques are used to examine the impact of chronic binge alcohol exposure on AD-associated neuropathology.

R01 AA025792 (Molina, Gilpin) 05/10/2018–03/31/2023 1.20 calendar  
 NIH/NIAAA \$225,000/year  
 Alcohol and Traumatic Brain Injury; Neuronal and Behavioral Consequences  
 The goal of the project is to determine the mechanisms whereby TBI increases alcohol drinking and worsens TBI outcomes.  
 Role: Principal Investigator

T35 AA021097 (Molina) 04/01/2012–05/31/2023 0.00 calendar  
 NIH/NIAAA \$30,308/year  
 Medical Student Alcohol Research Internship  
 This program is designed to cultivate students' interest in research careers by preparing them to work on research projects on alcohol abuse and alcohol related diseases. This program will help to create the next generation of Louisiana physician researchers who are prepared to conduct the translational research that can transform basic science discoveries into new clinical therapies.  
 Role: Principal Investigator

**PENDING:**

R01 (Multi-PI; Molina) 08/01/2020–07/31/2025 1.2 calendar  
 NIH/NIDA \$474,648/year  
 Modulation of Immune Activation and Pain Sensitivity by Cannabinoids in HIV/SIV  
 Submitted 03/11/2020

P60 Admin Supplement (Molina) 07/01/2020–06/30/2025 0.6 calendar  
 NIH/NIAAA \$10,000/year  
 AD/SIV Admin Supplement

P60 AA009803-27S2 (Molina, Welsh, Ferguson)  
 NOLA COVID-19 community adaptive responsive engaged strategy (CARES)

R01 AA02579201-S1 (Molina/Gilpin) 07/01/2020–06/30/2021 0.0 calendar  
 NIH/NIAAA \$73,118/year  
 Alcohol and Traumatic Brain Injury; Neuronal and Behavioral Consequences (admin suppl)  
 Submitted 03/06/2020

Department of Defense (Edwards/Molina) 09/01/2020–08/31/2024 1.2 calendar  
 Military Medical Research & Development \$222,562/year  
 This research will have both near- and long-term impact on our understanding of pain chronification mechanisms and deployment of novel therapeutic strategies to prevent the development of chronic pain in individuals suffering from TBI.  
 Submitted 11/2019

Submitted 10/2019

This is a 6-site randomized clinical trial designed to determine the efficacy of a Contingency Management (CM) plus Stepped Care for unhealthy alcohol use among people living with HIV.

R01 DA050539-01 (Molina/Simon/Edwards) 12/01/2019–11/30/2024 1.2 calendar  
NIH/NIAAA \$333,615/year

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

Studies propose an integrative systematic investigation of the interaction of opioids with immunodeficiency virus and antiretroviral therapy on inflammasome expression in the context of a Western diet. Studies will advance our knowledge on inflammasome-associated HIV neuropathogenesis, and address the Office of AIDS Research established HIV/AIDS research priorities by investigating “HIV-associated comorbidities and complications” to support efforts to “implement new evidence-based practices and strategies that improve public health.

R01 DK126039 (Simon/Molina) 07/01/2020–06/30/2025 1.2 calendar  
NIH/NIAAA \$499,254

Mechanisms of Metabolic Dysregulation in SIV/HIV: Role of Adipocyte-Immune Cell Cross Talk  
Proposed studies will dissect the roles of adipocyte (fat cell) and immune T cell secreted factors and their interplay in decreasing adipose tissue metabolic functional capacity.

Submitted 11/2019

R24 AA026797 (Molina) 04/01/2018–03/31/2023 0.36 calendar  
NIH/NIAAA \$350,000/year

Chronic Alcohol-SIV Rhesus BioResource

This is a research grant with the overarching goal of creating the new Chronic Alcohol-SIV Rhesus BioResource that would provide data and biospecimens to intramural and extramural researchers interested in testing hypotheses of alcohol and HIV.

Role: Principal Investigator

R21 (Simon/Jolley) 04/01/2019–03/31/2021  
NIH/NHLBI \$150,000

Effect of low caloric feeding on myomiR expression and muscle metabolism in Acute Respiratory Distress Syndrome

Role: Co-Investigator

R21 (Simon/Edwards) 02/01/2019–03/31/2021  
NIH/NHLBI \$275,000

Impaired recovery from disuse atrophy: Alcohol-mediated mechanisms

Role: Co-Investigator

R01 (Molina/Simon/Edwards) 12/01/2019–11/30/2024  
NIH/NIAAA \$333,651

Integrative investigation of the inflammasome in the neuropathology of chronic opioid use and HIV

**COMPLETE:**

U01 AA02079009S1 (Fiellin, Justice; Yale Univ.) 11/01/2019–12/31/2020 0.6 calendar  
NIH/NIAAA \$62,772/year

Financial Incentives, Randomization with Stepped Treatment (FIRST) trial

The goals of this study are to optimize the treatment of HIV disease by decreasing alcohol consumption, improving HIV immune markers, and improving overall health in patients with

unhealthy alcohol use. The current project will serve to advance this area of research and expand the types of care that HIV-infected patients receive.

Role: Site Principal Investigator/Co-Principal Investigator (Subcontract)

U01 AA021995 (Molina) 09/15/2012–08/31/2019 (NCE) 1.68 calendar  
NIH/NIAAA \$339,332/year

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

This project develops and strategically tests coordinated interventions to reduce alcohol use and alcohol-related consequences in HIV-impacted populations.

Role: Principal Investigator/Director

Roadmap Scholar (Jolley) 07/2015–06/2017 0.00 calendar

LA CaTS

Role: Mentor to Sarah Jolley, MD

R25 AA021304 (Gregory, Molina) 04/05/2012–03/31/2018 0.20 calendar  
NIH/NIAAA \$86,896/year

Louisiana SURE Program

This program supports ten undergraduate students to conduct hands-on research on alcohol related diseases during the summer. The goal of the program is to nurture the next generation of scientists who will participate in clinical and translational research on a major health issue.

Role: Co-Investigator

R13 AA024974 03/01/2016–02/28/2017 0.0 calendar  
NIH/NIAAA \$15,000

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

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

Role: Principal Investigator

R21 AA022690 (Gardner) 08/01/2014–07/31/2016 0.24 calendar  
NIH/NIAAA

Ethanol-Induced Cardiac Fibrosis and Dysfunction are Mediated by NADPH

Role: Co-Investigator

R01 DA030053-05 07/01/2010–02/29/2016  
NIH/NIDA \$634,348 NCE

Cannabinoid Epigenomic and miRNA Mechanisms Impact HIV/SIV Disease Progression

Studies explored the epigenomic (miRNA and DNA methylation) mechanisms involved in the anti-inflammatory effects and suppression of viral replication associated with prolonged survival in chronic THC-treated, SIV-infected animals.

Role: Principal Investigator

W81XWH-11-2-0011 09/30/2010–10/03/2015

Department of Defense

Endocannabinoids as a Target for the Treatment of Traumatic Brain Injury

Studies investigated the effectiveness of inhibitors of endocannabinoid degradation in improving outcome from traumatic brain injury. This approach had the advantage of using a substance that

is normally produced by the body as a protective factor to improve brain function following injury without impairing learning and cognitive function.

Role: Principal Investigator

P60 AA009803-19 (Nelson) 12/01/2009–11/30/2014

NIH/NIAAA

Alcohol, HIV Infection and Host Defense

The focus of the education part of the ARC is to disseminate information related to alcohol abuse to the public and to foster interdisciplinary research efforts among scientists.

Role: Academic Research Coordinator of Administrative Component

P20 GM 103514-10 (Kapusta) 09/01/2003–06/30/2013

NIH/NCRR

Mentoring in Cardiovascular Biology

Role: Mentor for trainees on the Cardiovascular COBRE.

R01 DA 030053-03S1 06/01/2012–08/01/2012

NIH/NIDA

Summer Research with NIDA

This project provided a training opportunity for an undergraduate student for 8-10 weeks in Summer 2012.

Role: Principal Investigator

P20 RR016816-06 (Bazan) 02/01/2007–01/31/2012

NIH/NCRR

Mentoring Neuroscience in Louisiana

Role: Mentor for trainees on the Neuroscience COBRE.

R01 DA 020419-04S1 04/01/2009–03/31/2011

NIH/NIDA

Cannabinoid Effects on HIV/AIDS

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

Role: Principal Investigator

R01 DA020419-S3 04/01/2009–03/31/2011

NIH/NIDA

Cannabinoid Effects on HIV/AIDS

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

Role: Principal Investigator

R01 DA020419-02S1 08/10/2006–03/31/2011

Cannabinoid effects on HIV/AIDS

NIH/NIDA

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

Role: Principal Investigator

W81XWH-06-1-0236 PR 054196 04/03/2006–04/02/2011

Department of Defense

Alcohol intoxication Impact on outcome from traumatic injury

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

Role: Principal Investigator

R01 DA020419-04S2

06/20/2009–09/31/2009

NIH/NIDA

Cannabinoid Effects on HIV/AIDS

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

Role: Principal Investigator

R13 AA00448747

09/01/2008–08/30/2009

NIH/NIAAA

Training Directors Meeting LSUHSC 2009

This project focused on organizing the NIAAA Trainee and Program Director's workshop in New Orleans, LA.

Role: Principal Investigator

LSUHSC Translational Initiative

01/01/2009–12/31/2009

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

DHHS Office of Minority Health

01/01/2009–08/31/2009

Application to Practice: A National Videoconference Training Program

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

Role: Project Director

R01 NIAAA3543-05

07/01/2002–06/30/2009

NIH/NIAAA

Chronic Alcohol & AIDS Impact on Muscle Wasting

The goals of the project were to dissect the mechanisms involved in the increase in muscle wasting observed during the progression of AIDS and how chronic alcohol administration alters their progression.

Role: Principal Investigator

NSF(2008) PFund 103

04/01/2008–03/31/2009

Board of Regents

Target Mechanisms for Improved Outcome from Hemorrhage

This project will investigate the feasibility of acetylcholinesterase inhibitors in improving the blood pressure response to shock in alcohol intoxicated rodents.

Role: Principal Investigator

DA020419-02S2

06/01/2008–08/01/2008

NIH/NIDA

Summer Research with NIDA weeks during the summer of 2008.

Role: Principal Investigator

R13 GM080954-01 (Kovacs)

06/01/2007–05/31/2008

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

Role: Co-Investigator/Organizer

U01 AA014293-01 (Nelson)

04/01/2003–03/31/2006

Alcohol Research Planning and Development Program

This project aimed to develop a research plan to enable Xavier University faculty to establish research programs. In addition, the education aspect focused on developing courses to better prepare pharmacy students to deal with drug-alcohol interactions.

Role: Co-Investigator

NOOO14-97-1-0248

02/01/1997–01/31/2006

Neural Control of Hemorrhage-Induced Tissue Cytokine Production

The goal was to determine the time course, magnitude, and tissue specificity of the alterations in pro-inflammatory cytokine and endogenous opiate concentrations induced by hemorrhage, and to determine the role of the central nervous system in modulating the magnitude of these responses, with particular focus on the role of pain-related pathways.

Role: Principal Investigator

Louisiana Health Excellence Fund

06/01/2000–05/31/2005

Immunosuppression Following Trauma/Hemorrhage; Impact of Alcohol Intoxication

The goal was to establish a model of alcohol intoxication and soft tissue trauma with hemorrhage to identify the specific alterations in host defense that contribute to enhanced susceptibility to infection.

Role: Principal Investigator, Project 3

R13 AA13578

10/01/2001–09/31/2002

Alcoholism and Disease: Immune and Pathological Mechanisms

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

Role: Principal Investigator

R01 GM 50567 (Abumrad)

08/01/1993–07/31/1997

Surgery-Protein Breakdown and Endogenous Opiates

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

Role: Co-Investigator

R01 DK 42562S1 (Abumrad)

02/01/1992–06/30/1996

Proteolysis in Hypoglycemia–Impact of CNS.

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

Role: Principal Investigator, supplement for underrepresented minorities

Pilot and Feasibility Project

01/01/1991–01/12/1992

Clinical Nutrition Research Unit, Vanderbilt

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

Role: Principal Investigator

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

American Heart Association, Louisiana Chapter  
Mechanisms of the Sepsis-Induced Splanchnic Hyperemia  
The goal was to investigate the contribution of glucagon to the enhanced splanchnic circulation during infection.  
Role: Principal Investigator

**Grants awarded to trainees/fellows (recent):**

**ACTIVE:**

F30 AA026468 (Stielper) 07/01/2018–06/30/2023 0.00 calendar  
NIH/NIAAAA \$36,377/year

The Role of Amygdalar Endocannabinoids in Alcohol Drinking after Traumatic Brain Injury (TBI)  
Role: Co-mentor to Zachary Stielper

K01 AA024494 (Simon) 07/05/2016–06/30/2021 0.00 calendar  
NIH/NIAAAA \$156,385/year

Alcohol-induced MyomiR Dysregulation: Mechanisms of Impaired Skeletal Muscle Regeneration in SIV/HIV  
Role: Mentor

K01 AA026640 (Souza) 07/01/2018–06/30/2023 0.00 calendar  
NIH/NIAAAA \$168,945/year

Mesenteric Lymphatic / Perilymphatic Adipose Tissue Crosstalk; Mechanism of Alcohol Immunomodulation  
Role: Mentor

F31 AA028459 (Poret) 2020–2023 0.0 calendar  
NIH/NIAAAA \$37,373/year

Chronic binge alcohol in SIV infection: Impact of adipose tissue stiffness on metabolic dysfunction  
Role: Mentor

F30 (Foret)  
NIH/NIAAAA  
Translational investigation of mechanisms underlying pain symptoms associated with alcohol use in HIV/SIV infection  
Role: Mentor

**COMPLETE:**

F30 AA026527 (Maffei) 04/17/2018–08/31/2020 0.00 calendar  
NIH/NIAAAA \$49,044/year

Alcohol-associated Intestinal Dysbiosis and CD8+ T-cell Activation and Immunosenescence during HIV Infection  
Role: Co-mentor to Vincent Maffei, BS

F32 AA026779 (Fucich) 09/2018–08/2019 0.0 calendar  
NIH/NIAAAA \$58,654/year

Stress Effects on Traumatic Brain Injury: Neural Mechanisms of Escalated Alcohol Drinking  
Role: Mentor



Roadmap Scholar (Gill) LA CaTS Role: Mentor to Luther Gill, DPT, PhD	07/2018–06/2020	0.00 calendar
F30 AA023696 (Schreiber) NIH/NIAAA Prefrontal Cortex Stress Peptides In Traumatic Stress-Induced Escalation of Alcohol Drinking Role: Co-mentor to Allyson Schreiber	07/01/2015–06/30/2020 \$39,480/year	0.00 calendar
F30 AA024030 (Ford) NIH/NIAAA Chronic Alcohol Dysregulation of Anabolic Signaling in Skeletal Muscle of SIV-Infected Rhesus Macaques Role: Mentor to Stephen Ford	08/01/2015–07/31/2018 \$48,844	0.00 calendar
K99 AA026336 (Samuelson) NIH/NIAAA Mechanisms by which Alcohol-Induced Dysbiosis Impairs Host Defense Against Klebsiella Pneumoniae Role: Co-mentor to Derrick Samuelson, PhD	05/30/2018–05/31/2019 \$121,605/year	0.00 calendar

#### Publications:

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

1. **Molina PE**, Lang CH, Bagby GJ, D'Souza NB, Spitzer JJ. Ethanol administration diminishes the endotoxin-induced increase in glucose metabolism. *Alcohol Clin Exp Res.* 1989;13(3):407-412.
2. Lang CH, **Molina PE**, Bagby GJ, Spitzer JJ. Chronic alcohol consumption prevents the sepsis-induced increases in gluconeogenesis and metabolic clearance rate. *Prog Clin Biol Res.* 1990;325:373-382.
3. **Molina PE**, Lang CH, Bagby GJ, Spitzer JJ. Ethanol attenuates endotoxin-enhanced glucose utilization. *Am J Physiol.* 1990;258(4 Pt 2):R987-993.
4. **Molina PE**, Lang CH, Bagby GJ, Spitzer JJ. Ethanol oxidation is not required to attenuate endotoxin-enhanced glucose metabolism. *Am J Physiol.* 1991;260(6 Pt 2):R1058-1065.
5. Spitzer JJ, Bagby GJ, Bautista AP, D'Souza NB, **Molina PE**, Lang CH. Immunosuppressive effect of alcohol on hepatic parenchymal and nonparenchymal cell functions following endotoxin. *Adv Exp Med Biol.* 1991;288:255-264.
6. Lang CH, **Molina PE**, Abumrad NN. Granulocyte colony-stimulating factor prevents ethanol-induced impairment in host defense in septic rats. *Alcohol Clin Exp Res.* 1993;17(6):1268-1274.
7. Lang CH, **Molina PE**, Yousef KA, Tepper PG, Abumrad NN. Role of IL-1 alpha in central nervous system immunomodulation of glucoregulation. *Brain Res.* 1993;624(1-2):53-60.
8. **Molina PE**, Eltayeb K, Hourani H, Okamura K, Nanney LB, Williams P, Abumrad NN. Hormonal and metabolic effects of neuroglucopenia. *Brain Res.* 1993;614(1-2):99-108.
9. Fan J, **Molina PE**, Gelato MC, Lang CH. Differential tissue regulation of insulin-like growth factor-I content and binding proteins after endotoxin. *Endocrinology.* 1994;134(4):1685-1692.

10. Lang CH, **Molina PE**, Skrepnick N, Bagby GJ, Spitzer JJ. Epinephrine-induced changes in hepatic glucose production after ethanol. *Am J Physiol*. 1994;266(6 Pt 1):E863-869.
11. **Molina PE**, Abumrad NN. Gut-derived proteolysis during insulin-induced hypoglycemia: The pain that breaks down the gut. *JPEN J Parenter Enteral Nutr*. 1994;18(6):549-556.
12. **Molina PE**, Abumrad NN. Metabolic effects of opiates and opioid peptides. *Adv Neuroimmunol*. 1994;4(2):105-116.
13. **Molina PE**, Hashiguchi Y, Ajmal M, Mazza M, Abumrad NN. Differential hemodynamic, metabolic and hormonal effects of morphine and morphine-6-glucuronide. *Brain Res*. 1994;664(1-2):126-132.
14. **Molina PE**, Jabbour K, Williams P, Abumrad NN. Effect of acute ethanol intoxication on glucoregulation during prolonged insulin-induced hypoglycemia. *Am J Physiol*. 1994;267(5 Pt 2):R1280-1287.
15. **Molina PE**, Myers N, Smith RM, Lang CH, Yousef KA, Tepper PG, Abumrad NN. Nutritional and metabolic characterization of a thiamine-deficient rat model. *JPEN J Parenter Enteral Nutr*. 1994;18(2):104-111.
16. **Molina PE**, Tepper PG, Yousef KA, Abumrad NN, Lang CH. Central NMDA enhances hepatic glucose output and non-insulin-mediated glucose uptake by a nonadrenergic mechanism. *Brain Res*. 1994;634(1):41-48.
17. **Molina PE**, Yousef KA, Smith RM, Tepper PG, Lang CH, Abumrad NN. Thiamin deficiency impairs endotoxin-induced increases in hepatic glucose output. *Am J Clin Nutr*. 1994;59(5):1045-1049.
18. Petit F, Jarrous A, Dickinson RD, **Molina PE**, Abumrad NN, Lang CH. Contribution of central and peripheral adrenergic stimulation to IL-1 alpha-mediated glucoregulation. *Am J Physiol*. 1994;267(1 Pt 1):E49-56.
19. Yousef KA, Tepper PG, **Molina PE**, Abumrad NN, Lang CH. Differential control of glucoregulatory hormone response and glucose metabolism by NMDA and kainate. *Brain Res*. 1994;634(1):131-140.
20. Abumrad NN, Kim S, **Molina PE**. Regulation of gut glutamine metabolism: Role of hormones and cytokines. *Proc Nutr Soc*. 1995;54(2):525-533.
21. Bundz S, **Molina PE**, Lang CH, Abumrad NN. Endogenous opiates do not modulate LPS-induced alterations in carbohydrate metabolism. *Shock*. 1995;4(6):397-402.
22. Hashiguchi Y, **Molina PE**, Abumrad NN. Morphine-3-glucuronide: Hyperglycemic and neuroendocrine potentiating effects. *Brain Res*. 1995;694(1-2):13-20.
23. Hashiguchi Y, **Molina PE**, Abumrad NN. Modulation of metabolic effects of morphine-6-glucuronide by morphine-3-glucuronide. *Brain Res Bull*. 1995;38(4):325-329.
24. **Molina PE**, Hashiguchi Y, Meijerink WJ, Naukam RJ, Boxer R, Abumrad NN. Modulation of endogenous opiate production: Effect of fasting. *Biochem Biophys Res Commun*. 1995;207(1):312-317.
25. **Molina PE**, Fan J, Boxer R, Gelato MC, Lang CH, Abumrad NN. Modulation of insulin-like growth factor-I: A specific role for vitamin B1 (thiamine). *J Nutri Biochem*. 1996;7(4):207-213.

26. Delman K, Malek SK, Bundz S, Abumrad NN, Lang CH, **Molina PE**. Resuscitation with lactated ringer's solution after hemorrhage: Lack of cardiac toxicity. *Shock*. 1996;5(4):298-303.
27. Hashiguchi Y, **Molina PE**, Fan J, Lang CH, Abumrad NN. Central opiate modulation of growth hormone and insulin-like growth factor-i. *Brain Res Bull*. 1996;40(2):99-104.
28. Hashiguchi Y, **Molina PE**, Preedy VR, Sugden PH, McNurlan MA, Garlick PJ, Abumrad NN. Central effects of morphine and morphine-6-glucuronide on tissue protein synthesis. *Am J Physiol*. 1996;271(3 Pt 2):R619-625. P
29. Meijerink WJ, **Molina PE**, Lang CH, Abumrad NN. Contribution of excitatory amino acids to morphine-induced metabolic alterations. *Brain Res*. 1996;706(1):123-128.
30. Cersosimo E, Ajmal M, Naukam RJ, **Molina PE**, Abumrad NN. Role of the kidney in plasma glucose regulation during hyperglycemia. *Am J Physiol*. 1997;272(5 Pt 1):E756-761.
31. Cersosimo E, **Molina PE**, Abumrad NN. Renal glucose production during insulin-induced hypoglycemia. *Diabetes*. 1997;46(4):643-646.
32. Hashiguchi Y, **Molina PE**, Dorton S, McNurlan MA, Garlick PJ, Reddy D, Abumrad NN. Central opiate mu-receptor-mediated suppression of tissue protein synthesis. *Am J Physiol*. 1997;273(3 Pt 2):R920-927.
33. **Molina PE**, Ding YS, Carroll FI, Liang F, Volkow ND, Pappas N, Kuhar M, Abumrad N, Gatley SJ, Fowler JS. Fluoro-norchloroepibatidine: Preclinical assessment of acute toxicity. *Nucl Med Biol*. 1997;24(8):743-747.
34. **Molina PE**, Malek S, Lang CH, Qian L, Naukam R, Abumrad NN. Early organ-specific hemorrhage-induced increases in tissue cytokine content: Associated neurohormonal and opioid alterations. *Neuroimmunomodulation*. 1997;4(1):28-36.
35. **Molina PE**, Williams P, Abumrad NN. Histaminergic contribution to the metabolic effects of neuroglucopenia. *Am J Physiol*. 1997;272(6 Pt 2):R1918-1924.
36. Cersosimo E, **Molina PE**, Abumrad NN. Renal lactate metabolism and gluconeogenesis during insulin-induced hypoglycemia. *Diabetes*. 1998;47(7):1101-1106.
37. Hashiguchi Y, **Molina PE**, Boxer R, Naukam R, Abumrad NN. Differential responses of brain, liver, and muscle glycogen to opiates and surgical stress. *Surg Today*. 1998;28(4):471-474.
38. **Molina PE**, Ajmal M, Abumrad NN. Energy metabolism and fuel mobilization: From the perioperative period to recovery. *Shock*. 1998;9(4):241-248.
39. **Molina PE**, Qian L, Schuhlein D, Naukam R, Wang H, Tracey KJ, Abumrad NN. Cni-1493 attenuates hemodynamic and pro-inflammatory responses to LPS. *Shock*. 1998;10(5):329-334.
40. Ding YS, **Molina PE**, Fowler JS, Logan J, Volkow ND, Kuhar MJ, Carroll FI. Comparative studies of epibatidine derivatives [18f]nfep and [18f]n-methyl-nfep: Kinetics, nicotine effect, and toxicity. *Nucl Med Biol*. 1999;26(1):139-148.
41. Landis CS, Li X, Telang FW, **Molina PE**, Palyka I, Vetek G, Springer CS, Jr. Equilibrium transcytolemmal water-exchange kinetics in skeletal muscle in vivo. *Magn Reson Med*. 1999;42(3):467-478.
42. Meijerink WJ, **Molina PE**, Abumrad NN. Mammalian opiate alkaloid synthesis: Lessons derived from plant biochemistry. *Shock*. 1999;12(3):165-173.

43. **Molina PE**, Abumrad NN. Central sympathetic modulation of tissue cytokine response to hemorrhage. *Neuroimmunomodulation*. 1999;6(3):193-200.
44. **Molina PE**, Ahmed N, Ajmal M, Dewey S, Volkow N, Fowler J, Abumrad N. Co-administration of gamma-vinyl gaba and cocaine: Preclinical assessment of safety. *Life Sci*. 1999;65(11):1175-1182.
45. Telang FW, Ding YS, Volkow ND, **Molina PE**, Gatley SJ. Pyridostigmine, a carbamate acetylcholinesterase ache inhibitor and reactivator, is used prophylactically against chemical warfare agents. *Nucl Med Biol*. 1999;26(2):249-250.
46. Wang H, Bloom O, Zhang M, Vishnubhakat JM, Ombrellino M, Che J, Frazier A, Yang H, Ivanova S, Borovikova L, Manogue KR, Faist E, Abraham E, Andersson J, Andersson U, **Molina PE**, Abumrad NN, Sama A, Tracey KJ. HMG-1 as a late mediator of endotoxin lethality in mice. *Science*. 1999;285(5425):248-251.
47. Gerasimov MR, Franceschi M, Volkow ND, Gifford A, Gatley SJ, Marsteller D, **Molina PE**, Dewey SL. Comparison between intraperitoneal and oral methylphenidate administration: A microdialysis and locomotor activity study. *J Pharmacol Exp Ther*. 2000;295(1):51-57.
48. **Molina PE**, Abumrad NN. Differential effects of hemorrhage and LPS on tissue TNF-alpha, IL-1 and associate neuro-hormonal and opioid alterations. *Life Sci*. 2000;66(5):399-409.
49. Sammi MK, Pan JW, Telang FW, Schuhlein D, **Molina PE**, Volkow ND, Springer CS, Hetherington HP. Measurements of human brain ethanol T(2) by spectroscopic imaging at 4 T. *Magn Reson Med*. 2000;44(1):35-40.
50. **Molina PE**. Noradrenergic inhibition of TNF upregulation in hemorrhagic shock. *Neuroimmunomodulation*. 2001;9(3):125-133.
51. **Molina PE**. Opiate modulation of hemodynamic, hormonal, and cytokine responses to hemorrhage. *Shock*. 2001;15(6):471-478.
52. **Molina PE**, Abumrad NN. Contribution of excitatory amino acids to hypoglycemic counter-regulation. *Brain Res*. 2001;899(1-2):201-208.
53. **Molina PE**, Ahmed N, Gatley J, Volkow ND, Abumrad NN. L-tryptophan attenuation of the dopaminergic and behavioral responses to cocaine. *Life Sci*. 2001;69(16):1897-1906.
54. **Molina PE**, Bagby GJ, Stahls P. Hemorrhage alters neuroendocrine, hemodynamic, and compartment-specific TNF responses to LPS. *Shock*. 2001;16(6):459-465.
55. Marsteller DA, Gerasimov MR, Schiffer WK, Geiger JM, Barnett CR, Schaich Borg J, Scott S, Ceccarelli J, Volkow ND, **Molina PE**, Alexoff DL, Dewey SL. Acute handling stress modulates methylphenidate-induced catecholamine overflow in the medial prefrontal cortex. *Neuropsychopharmacology*. 2002;27(2):163-170.
56. **Molina PE**. Stress-specific opioid modulation of haemodynamic counter-regulation. *Clin Exp Pharmacol Physiol*. 2002;29(3):248-253.
57. **Molina PE**, McClain C, Valla D, Guidot D, Diehl AM, Lang CH, Neuman M. Molecular pathology and clinical aspects of alcohol-induced tissue injury. *Alcohol Clin Exp Res*. 2002;26(1):120-128.
58. Phelan H, Stahls P, Hunt J, Bagby GJ, **Molina PE**. Impact of alcohol intoxication on hemodynamic, metabolic, and cytokine responses to hemorrhagic shock. *J Trauma*. 2002;52(4):675-682.

59. **Molina PE.** Endogenous opioid analgesia in hemorrhagic shock. *J Trauma.* 2003;54(5 Suppl):S126-132.
60. **Molina PE,** Hoek JB, Nelson S, Guidot DM, Lang CH, Wands JR, Crawford JM. Mechanisms of alcohol-induced tissue injury. *Alcohol Clin Exp Res.* 2003;27(3):563-575.
61. Volkow ND, Wang GJ, Fowler JS, **Molina PE,** Logan J, Gatley SJ, Gifford A, Ding YS, Wong C, Pappas NR, Zhu W, Swanson JM. Cardiovascular effects of methylphenidate in humans are associated with increases of dopamine in brain and of epinephrine in plasma. *Psychopharmacology.* 2003;166(3):264-270.
62. Winsauer PJ, Moerschbaecher JM, **Molina PE,** Roussel AM. Contingent and noncontingent cocaine administration in rhesus monkeys: A comparison of the effects on the acquisition and performance of response sequences. *Behav Pharmacol.* 2003;14(4):295-306.
63. **Molina PE,** Zambell KL, Norenberg K, Eason J, Phelan H, Zhang P, Stouwe CV, Carnal JW, Porreta C. Consequences of alcohol-induced early dysregulation of responses to trauma/hemorrhage. *Alcohol.* 2004;33(3):217-227.
64. **Molina PE,** Zambell KL, Zhang P, Vande Stouwe C, Carnal J. Hemodynamic and immune consequences of opiate analgesia after trauma/hemorrhage. *Shock.* 2004;21(6):526-534.
65. Zambell KL, Phelan H, Vande Stouwe C, Zhang P, Shellito JE, **Molina PE.** Acute alcohol intoxication during hemorrhagic shock: Impact on host defense from infection. *Alcohol Clin Exp Res.* 2004;28(4):635-642.
66. **Molina PE.** Neurobiology of the stress response: Contribution of the sympathetic nervous system to the neuroimmune axis in traumatic injury. *Shock.* 2005;24(1):3-10.
67. Dincer UD, Araiza AG, Knudson JD, **Molina PE,** Tune JD. Sensitization of coronary alpha-adrenoceptor vasoconstriction in the prediabetic metabolic syndrome. *Microcirculation.* 2006;13(7):587-595.
68. Mathis KW, Zambell K, Olubadewo JO, **Molina PE.** Altered hemodynamic counter-regulation to hemorrhage by acute moderate alcohol intoxication. *Shock.* 2006;26(1):55-61.
69. **Molina PE.** Opioids and opiates: Analgesia with cardiovascular, haemodynamic and immune implications in critical illness. *J Intern Med.* 2006;259(2):138-154.
70. **Molina PE,** McNurlan M, Rathmacher J, Lang CH, Zambell KL, Purcell J, Bohm RP, Zhang P, Bagby GJ, Nelson S. Chronic alcohol accentuates nutritional, metabolic, and immune alterations during asymptomatic simian immunodeficiency virus infection. *Alcohol Clin Exp Res.* 2006;30(12):2065-2078.
71. Greiffenstein P, Mathis KW, Stouwe CV, **Molina PE.** Alcohol binge before trauma/hemorrhage impairs integrity of host defense mechanisms during recovery. *Alcohol Clin Exp Res.* 2007;31(4):704-715.
72. Greiffenstein P, **Molina PE.** Alcohol-induced alterations on host defense after traumatic injury. *J Trauma.* 2008;64(1):230-240.
73. **Molina PE.** Alcohol--intoxicating roadblocks and bottlenecks in hepatic protein and lipid metabolism. *Am J Physiol Endocrinol Metab.* 2008;295(1):E1-2.
74. **Molina PE,** Lang CH, McNurlan M, Bagby GJ, Nelson S. Chronic alcohol accentuates simian acquired immunodeficiency syndrome-associated wasting. *Alcohol Clin Exp Res.* 2008;32(1):138-147. PMID: PMC3178106.

75. Bird MD, Choudhry MA, **Molina PE**, Kovacs EJ. Alcohol and trauma: A summary of the satellite symposium at the 30th annual meeting of the shock society. *Alcohol*. 2009;43(3):247-252. PMID: PMC2701145.
76. Birke LL, **Molina PE**, Baker DG, Leonard ST, Marrero LJ, Johnson M, Simkin J. Comparison of selamectin and imidacloprid plus permethrin in eliminating leporacarus gibbus infestation in laboratory rabbits (*oryctolagus cuniculus*). *J Am Assoc Lab Anim Sci*. 2009;48(6):757-762. PMID: PMC2786930.
77. Mathis KW, **Molina PE**. Central acetylcholinesterase inhibition improves hemodynamic counterregulation to severe blood loss in alcohol-intoxicated rats. *Am J Physiol Regul Integr Comp Physiol*. 2009;297(2):R437-445. PMID: PMC2724230.
78. Mathis KW, **Molina PE**. Transient central cholinergic activation enhances sympathetic nervous system activity but does not improve hemorrhage-induced hypotension in alcohol-intoxicated rodents. *Shock*. 2009;32(4):410-415. PMID: PMC4310477.
79. Molina MF, Whitaker A, **Molina PE**, McDonough KH. Alcohol does not modulate the augmented acetylcholine-induced vasodilatory response in hemorrhaged rodents. *Shock*. 2009;32(6):601-607.
80. Mathis KW, Sulzer J, **Molina PE**. Systemic administration of a centrally acting acetylcholinesterase inhibitor improves outcome from hemorrhagic shock during acute alcohol intoxication. *Shock*. 2010;34(2):162-168.
81. **Molina PE**, Happel KI, Zhang P, Kolls JK, Nelson S. Focus on: Alcohol and the immune system. *Alcohol Res Health*. 2010;33(1-2):97-108. PMID: PMC3887500.
82. Souza-Smith FM, Kurtz KM, **Molina PE**, Breslin JW. Adaptation of mesenteric collecting lymphatic pump function following acute alcohol intoxication. *Microcirculation*. 2010;17(7):514-524. PMID: PMC3057893.
83. Whitaker AM, Sulzer J, Walker E, Mathis K, **Molina PE**. Sympathetic modulation of the host defense response to infectious challenge during recovery from hemorrhage. *Neuroimmunomodulation*. 2010;17(6):349-358. PMID: PMC3214917.
84. LeCapitaine NJ, Wang ZQ, Dufour JP, Potter BJ, Bagby GJ, Nelson S, Cefalu WT, **Molina PE**. Disrupted anabolic and catabolic processes may contribute to alcohol-accentuated SAIDS-associated wasting. *J Infect Dis*. 2011;204(8):1246-1255. PMID: PMC3173505.
85. LeCapitaine NJ, Zhang P, Winsauer P, Walker E, Vande Stouwe C, Porretta C, **Molina PE**. Chronic delta-9-tetrahydrocannabinol administration increases lymphocyte CXCR4 expression in rhesus macaques. *J Neuroimmune Pharmacol*. 2011;6(4):540-545. PMID: PMC3181271.
86. **Molina PE**, Amedee A, LeCapitaine NJ, Zabaleta J, Mohan M, Winsauer P, Vande Stouwe C. Cannabinoid neuroimmune modulation of SIV disease. *J Neuroimmune Pharmacol*. 2011;6(4):516-527. PMID: PMC3208744.
87. **Molina PE**, Winsauer P, Zhang P, Walker E, Birke L, Amedee A, Stouwe CV, Troxclair D, McGoey R, Varner K, Byerley L, LaMotte L. Cannabinoid administration attenuates the progression of simian immunodeficiency virus. *AIDS Res Hum Retroviruses*. 2011;27(6):585-592. PMID: PMC3131805.
88. Sulzer JK, **Molina PE**. Delayed resuscitation with physostigmine increases end organ damage in alcohol intoxicated rats. *Shock*. 2011;35(1):74-79. PMID: PMC3155800.

89. Whitaker AM, Sulzer JK, **Molina PE**. Augmented central nitric oxide production inhibits vasopressin release during hemorrhage in acute alcohol-intoxicated rodents. *Am J Physiol Regul Integr Comp Physiol*. 2011;301(5):R1529-1539. PMID: PMC3213928.
90. Winsauer PJ, **Molina PE**, Amedee AM, Filipeanu CM, McGoey RR, Troxclair DA, Walker EM, Birke LL, Stouwe CV, Howard JM, Leonard ST, Moerschbaecher JM, Lewis PB. Tolerance to chronic delta-9-tetrahydrocannabinol (delta(9)-thc) in rhesus macaques infected with simian immunodeficiency virus. *Exp Clin Psychopharmacol*. 2011;19(2):154-172. PMID: PMC3140653.
91. Kharbanda KK, Bardag-Gorce F, Barve S, **Molina PE**, Osna NA. Impact of altered methylation in cytokine signaling and proteasome function in alcohol and viral-mediated diseases. *Alcohol Clin Exp Res*. 2013;37(1):1-7. PMID: PMC3421055.
92. **Molina PE**, Sulzer JK, Whitaker AM. Alcohol abuse and the injured host: Dysregulation of counterregulatory mechanisms review. *Shock*. 2013;39(3):240-249. PMID: PMC3672362.
93. Souza-Smith FM, **Molina PE**, Breslin JW. Reduced rhoa activity mediates acute alcohol intoxication-induced inhibition of lymphatic myogenic constriction despite increased cytosolic [Ca(2+)]. *Microcirculation*. 2013;20(5):377-384. PMID: PMC3610832.
94. Sulzer JK, Whitaker AM, **Molina PE**. Hypertonic saline resuscitation enhances blood pressure recovery and decreases organ injury following hemorrhage in acute alcohol intoxicated rodents. *J Trauma Acute Care Surg*. 2013;74(1):196-202. PMID: PMC3532572.
95. Whitaker AM, **Molina PE**. Angiotensin (1-7) contributes to nitric oxide tonic inhibition of vasopressin release during hemorrhagic shock in acute ethanol intoxicated rodents. *Life Sci*. 2013;93(17):623-629. PMID: PMC3842194.
96. Amedee AM, Nichols WA, LeCapitaine NJ, Stouwe CV, Birke LL, Lacour N, Winsauer PJ, **Molina PE**. Chronic delta(9)-tetrahydrocannabinol administration may not attenuate simian immunodeficiency virus disease progression in female rhesus macaques. *AIDS Res Hum Retroviruses*. 2014;30(12):1216-1225. PMID: PMC4250957.
97. Amedee AM, Veazey R, **Molina P**, Nelson S, Bagby GJ. Chronic binge alcohol increases susceptibility to rectal simian immunodeficiency virus infection in macaques. *Aids*. 2014;28(16):2485-2487. PMID: PMC4351718.
98. Dodd T, Simon L, LeCapitaine NJ, Zabaleta J, Mussell J, Berner P, Ford S, Dufour J, Bagby GJ, Nelson S, **Molina PE**. Chronic binge alcohol administration accentuates expression of pro-fibrotic and inflammatory genes in the skeletal muscle of simian immunodeficiency virus-infected macaques. *Alcohol Clin Exp Res*. 2014;38(11):2697-2706. PMID: PMC4244658.
99. El Hajj EC, El Hajj MC, Voloshenyuk TG, Mouton AJ, Khoutorova E, **Molina PE**, Gilpin NW, Gardner JD. Alcohol modulation of cardiac matrix metalloproteinases (mmps) and tissue inhibitors of mmps favors collagen accumulation. *Alcohol Clin Exp Res*. 2014;38(2):448-456. PMID: PMC4080812.
100. Lehnert M, Kovacs EJ, **Molina PE**, Relja B. Modulation of inflammation by alcohol exposure. *Mediators Inflamm*. 2014;2014:283756. PMID: PMC3933311.
101. **Molina PE**. Alcohol binging exacerbates adipose tissue inflammation following burn injury (Review). *Alcohol Clin Exp Res*. 2014;38(1):33-35.
102. **Molina PE**, Amedee AM, LeCapitaine NJ, Zabaleta J, Mohan M, Winsauer PJ, Vande Stouwe C, McGoey RR, Auten MW, LaMotte L, Chandra LC, Birke LL. Modulation of gut-

- specific mechanisms by chronic delta(9)-tetrahydrocannabinol administration in male rhesus macaques infected with simian immunodeficiency virus: A systems biology analysis. *AIDS Res Hum Retroviruses*. 2014;30(6):567-578. PMID: PMC4046212.
103. **Molina PE**, Amedee AM, Veazey R, Dufour J, Volaufova J, Bagby GJ, Nelson S. Chronic binge alcohol consumption does not diminish effectiveness of continuous antiretroviral suppression of viral load in simian immunodeficiency virus-infected macaques. *Alcohol Clin Exp Res*. 2014;38(9):2335-2344. PMID: PMC4309364.
  104. **Molina PE**, Bagby GJ, Nelson S. Biomedical consequences of alcohol use disorders in the HIV-infected host. *Curr HIV Res*. 2014;12(4):265-275. PMID: PMC4222574.
  105. **Molina PE**, Gardner JD, Souza-Smith FM, Whitaker AM. Alcohol abuse: Critical pathophysiological processes and contribution to disease burden. *Physiology (Bethesda)*. 2014;29(3):203-215. PMID: PMC4046814.
  106. Simon L, LeCapitaine N, Berner P, Vande Stouwe C, Mussell JC, Allerton T, Primeaux SD, Dufour J, Nelson S, Bagby GJ, Cefalu W, **Molina PE**. Chronic binge alcohol consumption alters myogenic gene expression and reduces in vitro myogenic differentiation potential of myoblasts from rhesus macaques. *Am J Physiol Regul Integr Comp Physiol*. 2014;306(11):R837-844. PMID: PMC4042206.
  107. Teng SX, **Molina PE**. Acute alcohol intoxication prolongs neuroinflammation without exacerbating neurobehavioral dysfunction following mild traumatic brain injury. *J Neurotrauma*. 2014;31(4):378-386. PMID: PMC3922393.
  108. Armstrong ML, LaPlante AM, Altice FL, Copenhaver M, **Molina PE**. Advancing behavioral HIV prevention: Adapting an evidence-based intervention for people living with HIV and alcohol use disorders. *AIDS Res Treat*. 2015;2015:879052. PMID: PMC4678056.
  109. Bagby GJ, Amedee AM, Siggins RW, **Molina PE**, Nelson S, Veazey RS. Alcohol and HIV effects on the immune system. *Alcohol Res*. 2015;37(2):287-297. PMID: PMC4590624
  110. Chandra LC, Kumar V, Torben W, Vande Stouwe C, Winsauer P, Amedee A, **Molina PE**, Mohan M. Chronic administration of delta9-tetrahydrocannabinol induces intestinal anti-inflammatory microRNA expression during acute simian immunodeficiency virus infection of rhesus macaques. *J Virol*. 2015;89(2):1168-1181. PMID: PMC4300675.
  111. Katz PS, Siggins RW, Porretta C, Armstrong ML, Zea AH, Mercante DE, Parsons C, Veazey RS, Bagby GJ, Nelson S, **Molina PE**, Welsh DA. Chronic alcohol increases CD8+ T-cell immunosenescence in simian immunodeficiency virus-infected rhesus macaques. *Alcohol*. 2015;49(8):759-765. PMID: PMC4691397.
  112. Katz PS, Sulzer JK, Impastato RA, Teng SX, Rogers EK, **Molina PE**. Endocannabinoid degradation inhibition improves neurobehavioral function, blood-brain barrier integrity, and neuroinflammation following mild traumatic brain injury. *J Neurotrauma*. 2015;32(5):297-306. PMID: PMC4348366.
  113. Mayeux JP, Teng SX, Katz PS, Gilpin NW, **Molina PE**. Traumatic brain injury induces neuroinflammation and neuronal degeneration that is associated with escalated alcohol self-administration in rats. *Behav Brain Res*. 2015;279:22-30. PMID: PMC4277916.
  114. **Molina PE**, Amedee AM, Winsauer P, Nelson S, Bagby G, Simon L. Behavioral, metabolic, and immune consequences of chronic alcohol or cannabinoids on HIV/AIDS: Studies in the non-human primate SIV model. *J Neuroimmune Pharmacol*. 2015;10(2):217-232. PMID: PMC4470723.



115. **Molina PE**, Katz PS, Souza-Smith F, Ford SM, Teng SX, Dodd TY, Maxi JK, Mayeux JP. Alcohol's burden on immunity following burn, hemorrhagic shock, or traumatic brain injury. *Alcohol Res.* 2015;37(2):263-278. PMID: PMC4590622.
116. Nichols WA, Birke L, Dufour J, Loganantharaj N, Bagby GJ, Nelson S, **Molina PE**, Amedee AM. Characterization of the genital microenvironment of female rhesus macaques prior to and after SIV infection. *Am J Reprod Immunol.* 2015. PMID: PMC4715480
117. Simon L, Hollenbach AD, Zabaleta J, **Molina PE**. Chronic binge alcohol administration dysregulates global regulatory gene networks associated with skeletal muscle wasting in simian immunodeficiency virus-infected macaques. *BMC Genomics.* 2015;16(1):1097. PMID: PMC4690320.
118. Simon L, Song K, Vande Stouwe C, Hollenbach A, Amedee A, Mohan M, Winsauer P, **Molina P**. Delta9-tetrahydrocannabinol (delta9-thc) promotes neuroimmune-modulatory microRNA profile in striatum of simian immunodeficiency virus (SIV)-infected macaques. *J Neuroimmune Pharmacol.* 2015. PMID: PMC4773048
119. Souza-Smith FM, Kerut EK, Breslin JW, **Molina PE**. Mechanisms of acute alcohol intoxication-induced modulation of cyclic mobilization of [CA(2)(+)] in rat mesenteric lymphatic vessels. *Lymphat Res Biol.* 2015;13(2):93-99. PMID: PMC4492616.
120. Souza-Smith FM, Siggins RW, **Molina PE**. Mesenteric lymphatic-perilymphatic adipose crosstalk: Role in alcohol-induced perilymphatic adipose tissue inflammation. *Alcohol Clin Exp Res.* 2015;39(8):1380-1387.
121. Teng SX, Katz PS, Maxi JK, Mayeux JP, Gilpin NW, **Molina PE**. Alcohol exposure after mild focal traumatic brain injury impairs neurological recovery and exacerbates localized neuroinflammation. *Brain Behav Immun.* 2015;45:145-156. PMID: PMC4342330.
122. Vagenas P, Azar MM, Copenhaver MM, Springer SA, **Molina PE**, Altice FL. The impact of alcohol use and related disorders on the HIV continuum of care: A systematic review : Alcohol and the HIV continuum of care. *Curr HIV/AIDS Rep.* 2015;12(4):421-436. PMID: PMC4643391.
123. Veazey RS, Amedee A, Wang X, Bernice Kaack M, Porretta C, Dufour J, Welsh D, Happel K, Pahar B, **Molina PE**, Nelson S, Bagby GJ. Chronic binge alcohol administration increases intestinal T-cell proliferation and turnover in rhesus macaques. *Alcohol Clin Exp Res.* 2015;39(8):1373-1379. PMID: PMC4515194.
124. Kadri F, LaPlante A, De Luca M, Doyle L, Velasco-Gonzalez C, Patterson JR, **Molina PE**, Nelson S, Zea A, Parsons CH, Peruzzi F. Defining plasma microRNAs associated with cognitive impairment in HIV-infected patients. *J Cell Physiol.* 2016. PMID: PMC4758906
125. Guizzetti M, Davies DL, Egli M, Finn DA, **Molina P**, Regunathan S, Robinson DL, Sohrabji F. Sex and the lab: An alcohol-focused commentary on the NIH initiative to balance sex in cell and animal studies. *Alcohol Clin Exp Res.* 2016;40(6):1182-1191. PMID: PMC4889570.
126. Mayeux J, Katz P, Edwards S, Middleton JW, **Molina PE**. Inhibition of endocannabinoid degradation improves outcomes from mild traumatic brain injury: A mechanistic role for synaptic hyperexcitability. *J Neurotrauma.* 2016. PMID: PMC5220555
127. Mouton AJ, Maxi JK, Souza-Smith F, Bagby GJ, Gilpin NW, **Molina PE**, Gardner JD. Alcohol vapor inhalation as a model of alcohol-induced organ disease. *Alcohol Clin Exp Res.* 2016;40(8):1671-1678. PMID: PMC4961570

128. Simon L, Song K, Vande Stouwe C, Hollenbach A, Amedee A, Mohan M, Winsauer P, **Molina P**. Delta9-tetrahydrocannabinol (Delta9-THC) promotes neuroimmune-modulatory microrna profile in striatum of simian immunodeficiency virus (SIV)-infected macaques. *J Neuroimmune Pharmacol*. 2016;11(1):192-213. PMID: PMC4773048
129. Wei Q, Liu L, Cong Z, Wu X, Wang H, Qin C, **Molina P**, Chen Z. Chronic delta(9)-tetrahydrocannabinol administration reduces IgE(+)B cells but unlikely enhances pathogenic SIVmac251infection in male rhesus macaques of Chinese origin. *J Neuroimmune Pharmacol*. 2016;11(3):584-591. PMID: PMC5008029
130. Ford SM, Jr., Simon L, Vande Stouwe C, Allerton T, Mercante DE, Byerley LO, Dufour JP, Bagby GJ, Nelson S, **Molina PE**. Chronic binge alcohol administration impairs glucose-insulin dynamics and decreases adiponectin in asymptomatic simian immunodeficiency virus-infected macaques. *Am J Physiol Regul Integr Comp Physiol*. 2016;311(5):R888-R97. PMID: PMC5130581.
131. Dean M, Lassak A, Wilk A, Zapata A, Marrero L, **Molina P**, Reiss K. Acute ethanol increases IGF-I-induced phosphorylation of erks by enhancing recruitment of p52-Shc to the Grb2/Shc complex. *J Cell Physiol*. 2016. PMID: PMC5381968
132. Maxi JK, Dean M, Zabaleta J, Reiss K, Bagby GJ, Nelson S, Winsauer PJ, Peruzzi F, **Molina PE**. Chronic binge alcohol administration dysregulates hippocampal genes involved in immunity and neurogenesis in simian immunodeficiency virus-infected macaques. *Biomolecules*. 2016;6(4). PMID: PMC5197953
133. **Molina PE**. Mechanisms involved in disruption of adipose tissue mass resulting from chronic unhealthy alcohol consumption. *Alcohol Clin Exp Res*. 2016 Aug;40(8):1671-8. PMID: PMC4961570.
134. Duplanty AA, Simon L, **Molina PE**. Chronic binge alcohol-induced dysregulation of mitochondrial-related genes in skeletal muscle of simian immunodeficiency virus-infected rhesus macaques at end-stage disease. *Alcohol Alcohol*. 2017. PMID: PMC5397880
135. Samuelson DR, Shellito JE, Maffei VJ, Tague ED, Campagna SR, Blanchard EE, Luo M, Taylor CM, Ronis MJJ, **Molina PE**, Welsh DA. Alcohol-associated intestinal dysbiosis impairs pulmonary host defense against *Klebsiella pneumoniae*. *PLoS pathogens*. 2017;13(6):e1006426. PMID: PMC5481032
136. Souza-Smith FM, Ford SM, Jr., Simon L, **Molina PE**. Repeated binge-like alcohol intoxication: Depot-specific adipose tissue immuno-metabolic dysregulation. *Shock*. 2017;48(2):243-50. PubMed PMID: 28125531.
137. Ng HP, Jennings S, Wang J, **Molina PE**, Nelson S and Wang G. Non-canonical glucocorticoid receptor transactivation of *gilz* by alcohol suppresses cell inflammatory response. *Front. Immunol*. 8:661. doi: 10.3389/fimmu.2017.00661. PMID: PMC5461336
138. Simon L, Ford SM, Jr., Song K, Berner P, Vande Stouwe C, Nelson S, Bagby GJ, **Molina PE**. Decreased myoblast differentiation in chronic binge alcohol administered simian immunodeficiency virus-infected male macaques: Role of decreased miR-206. *Am J Physiol Regul Integr Comp Physiol*. 2017;ajpregu.00146.2017. PMID: PMC5625276
139. Edwards S, **Molina PE**, McDonough KH, Mercante DE, Gunaldo TP. Integrating an interprofessional education experience into a human physiology course. *J Physician Assist Educ*. 2017;28(3):146-8. PMID: PMC5561517.
140. Simon L, Jolley SE, **Molina PE**. Alcoholic myopathy: Pathophysiologic mechanisms and clinical implications. *Alcohol Res*. 2017;38(2):207-17. PMID: PMC5513686.

141. Wyczechowska D, Lin H-Y, LaPlante A, Jeansonne D, Lassak A, Parsons CH, **Molina PE**, Peruzzi F. A miRNA signature for cognitive deficits and alcohol use disorder in persons living with HIV/AIDS. *Front Mol Neurosci*. 2017;10(385). PMID: PMC5694774
142. Simon L, Siggins R, Winsauer P, Brashear M, Ferguson T, Mercante D, Song K, Vande Stouwe C, Nelson S, Bagby G, Amedee A, **Molina PE**. Simian immunodeficiency virus infection increases blood ethanol concentration duration after both acute and chronic administration. *AIDS Res Hum Retroviruses*. 2018 Feb;34(2):178-184. PMID: PMC5806079
143. Duplanty AA, Siggins RW, Allerton T, Simon L, **Molina PE**. Myoblast mitochondrial respiration is decreased in chronic binge alcohol administered simian immunodeficiency virus-infected antiretroviral-treated rhesus macaques. *Physiol Rep*. 6 (5), 2018, e13625. PMID: PMC5835494
144. **Molina PE**, Simon L, Amedee AM, Welsh DA, Ferguson TF. Impact of alcohol on HIV disease pathogenesis, comorbidities and aging: Integrating preclinical and clinical findings. *Alcohol Alcohol*. 2018 Sep 1;53(5):636. PMID: PMC6790512
145. Hulsebus HJ, Curtis BJ, **Molina PE**, Afshar M, Boule LA, Morris N, Keshavarzian A, Kolls JK, Yeligar SM, Price ME, Wyatt TA, Choudhry MA, Kovacs EJ. Summary of the 2017 Alcohol and Immunology Research Interest Group (AIRIG) Meeting. *Alcohol*. 2018;69:51-56. PMID: PMC5930121.
146. Edwards S, **Molina P**, McDonough K, Mercante D, Gunaldo T. The potential of interprofessional education to effectively translate physiology curricula into future team-based healthcare. Manuscript type: How We Teach: Generalizable Education Research. American Physiological Society. *Adv Physiol Educ*. 2018;42(2)354-359.
147. Ford SM Jr, Simon Peter L, Berner P, Cook G, Vande Stouwe C, Dufour JP, Bagby G, Nelson S, **Molina PE**. Differential contribution of chronic binge alcohol and antiretroviral therapy to metabolic dysregulation in SIV-infected male macaques. *Am J Physiol Endocrinol Metab*. 2018 Jul 24. PMID: PMC6293168
148. **Molina PE**, Nelson S. Binge drinking's effects on the body. *Alcohol Res*. 2018;39(1):99-109. PMID: PMC6104963
149. Welsh DA, Ferguson T, Theall KP, Simon L, Amedee A, Siggins RW, Nelson S, Brashear M, Mercante D, **Molina PE**. The New Orleans Alcohol Use in HIV Study: Launching a translational investigation of the interaction of alcohol use with biological and socioenvironmental risk factors for multimorbidity in people living with HIV. *Alcohol Clin Exp Res*. 2019 Apr;43(4):704-709. PMID: PMC6443470
150. Kumar V, Torben W, Mansfield J, Alvarez X, Vande Stouwe C, Li J, Byrareddy SN, Didier PJ, Pahar B, **Molina PE**, Mohan M. Cannabinoid attenuation of intestinal inflammation in chronic SIV-infected rhesus macaques involves T cell modulation and differential expression of micro-RNAs and pro-inflammatory genes. *Front Immunol*. 2019 Apr 30;10:914. PMID: PMC6503054
151. Fucich EA<sup>1\*\*</sup>, Mayeux JP<sup>1\*</sup>, McGinn MA<sup>1\*</sup>, Gilpin NW, Edwards S, **Molina PE**. A novel role for the endocannabinoid system in ameliorating motivation for alcohol drinking and negative behavioral affect following traumatic brain injury in rats. *J Neurotrauma*. 2019 Jun;36(11):1847-1855. doi: 10.1089/neu.2018.5854. PMID: PMC6551989
152. Samuelson DR, Gu M, Shellito JE, **Molina PE**, Taylor CM, Luo M, Welsh DA. Intestinal microbial products from alcohol-fed mice contribute to intestinal permeability and peripheral immune activation. *Alcohol Clin Exp Res*. 2019 Aug 13. PMID: PMC6867691

153. Maxi JK, Mercante D, Foret B, Oberhelman S, Ferguson TF, Bagby GJ, Nelson S, Amedee AM, Edwards S, Simon L, **Molina PE**. Chronic binge alcohol-associated differential brain region modulation of growth factor signaling pathways and neuroinflammation in simian immunodeficiency virus-infected male macaques. *Alcohol Alcohol*. 2019 Jul 19; PMID: PMC6751413
154. Madkour AS, Felker-Kantor E, Wallace M, Ferguson T, Welsh DA, **Molina PE**, Theall KP. Latent alcohol use typologies and health status among a cohort of adults living with HIV. *Alcohol Alcohol*. 2019 Oct 3. PMID: PMC6895462
155. Watt J, Schuon J, Davis J, Ferguson TF, Welsh DA, **Molina PE**, Ronis MJJ. Reduced serum osteocalcin in high-risk alcohol using people living with HIV does not correlate with systemic oxidative stress or inflammation: Data from the New Orleans Alcohol Use in HIV Study. *Alcohol Clin Exp Res*. 2019 Sep 4. PMID: PMC7489311
156. Souza-Smith FM, Simon L, Siggins R, **Molina PE**. Alcohol-induced mesenteric lymphatic permeability: Link to immunometabolic modulation of perilymphatic adipose tissue. *Int J Mol Sci*. 2019 Aug 22;20(17). PMID: PMC6747356
157. Wallace M, Felker-Kantor E, Madkour A, Ferguson T, Welsh D, **Molina P**, Theall KP. Adverse childhood experiences, smoking and alcohol use, and allostatic load among people living with HIV. *AIDS Behav*. 2019 Sep 26. PMID: PMC7096273
158. Adler K, **Molina PE**, Simon L. Epigenomic mechanisms of alcohol-induced impaired differentiation of skeletal muscle stem cells; Role of Class IIA histone deacetylases. *Physiol Genomics*. 2019 Sep 1;51(9):471-479. PMID: PMC6766701
159. Ferguson TF, Rosen E, Carr R, Brashear M, Simon L, Theall KP, Ronis MJ, Welsh DA, **Molina PE**. Associations of liver disease with alcohol use among people living with HIV and the role of Hepatitis C: The New Orleans Alcohol Use in HIV Study. *Alcohol Alcohol*. 2019 Dec 8. pii: agz089. PMID: PMC7005833
160. Madkour AS, Felker-Kantor E, Wallace M, Ferguson T, Welsh DA, **Molina PE**, Theall KP. Latent alcohol use typologies and health status among a cohort of adults living with HIV. *Alcohol Alcohol*. 2019 Dec 1;54(6):584-592. PMID: PMC6895462
161. Theall KP, Wallace M, Felker-Kantor E, Madkour AS, Brashear M, Ferguson T, Welsh D, **Molina P**. Neighborhood alcohol environment: Differential effects on hazardous drinking and mental health by sex in persons living with HIV (PLWH). *AIDS Behav*. 2019 Dec;23(12):3237-3246. PMID: 31401740. PMID: PMC7467156
162. Maffei VJ, Ferguson TF, Brashear MM, Mercante DE, Theall KP, Siggins RW, Taylor CM, **Molina P**, Welsh DA. Lifetime alcohol use among persons living with HIV is associated with frailty. *AIDS*. 2020 Feb 1;34(2), 245-254. PMID: PMC6960033
163. Fucich EA, Stielper ZF, Cancienne HL, Edwards S, Gilpin NW, **Molina PE**, Middleton JW. Endocannabinoid degradation inhibitors ameliorate neuronal and synaptic alterations following traumatic brain injury. *J Neurophysiol*. 2020 Feb 1;123(2):707-717. PMID: PMC7052644
164. Levitt DE, Yeh AY, Prendergast MJ, Jr RGB, Adler KA, Cook G, **Molina PE**, Simon L. Chronic alcohol dysregulates skeletal muscle myogenic gene expression after hind limb immobilization in female rats. *Biomolecules*. 2020 Mar 12;10(3):441. PMID: PMC7175129.
165. Rasineni K, Srinivasan MP, Balamurugan AN, Kaphalia BS, Wang S, Ding WX, Pandol SJ, Lugea A, Simon L, **Molina PE**, Gao P, Casey CA, Osna NA, Kharbanda KK. Recent

- advances in understanding the complexity of alcohol-induced pancreatic dysfunction and pancreatitis development. *Biomolecules*. 2020 Apr 27;10(5):669. PMID: PMC7277520.
166. Osna NA, Bhatia R, Thompson C, Batra SK, Kumar S, Cho Y, Szabo G, Molina PE, Weinman SA, Ganesan M, Kharbanda KK. Role of non-genetic risk factors in exacerbating alcohol-related organ damage. *Alcohol*. 2020 Sep;87:63-72. PMID: PMC7483997.
  167. Simon L, Ferguson T, Vande Stouwe C, Brashear M, Primeaux SD, Theall KP, Welsh DA, **Molina PE**. Prevalence of insulin resistance in adults living with HIV: Implications of alcohol use. *AIDS Res Hum Retroviruses*. 2020 Sep;36(9):742-752. PMID: PMC7482115
  168. Ferguson TF, Theall KP, Brashear M, Maffei V, Beauchamp A, Siggins RW, Simon L, Mercante D, Nelson S, Welsh DA, **Molina PE**. Comprehensive assessment of alcohol consumption in people living with HIV (PLWH): The New Orleans Alcohol Use in HIV Study. *Alcohol Clin Exp Res*. 2020 Jun;44(6):1261-1272. PMID: PMC7282973.
  169. Ferguson TF, Beauchamp A, Rosen EM, Ray AN, Theall KP, Gilpin NW, **Molina PE**, Edwards S. Pilot study of the adaptation of an alcohol, tobacco, and illicit drug use intervention for vulnerable urban young adults. *Front Public Health*. 2020;8:314. PMID: PMC7379478.
  170. Maffei VJ, Siggins RW, Luo M, Brashear MM, Mercante DE, Taylor CM, **Molina P**, Welsh DA. Alcohol use is associated with intestinal dysbiosis and dysfunctional CD8+ t-cell phenotypes in persons with human immunodeficiency virus. *J Infect Dis*. 2021 Mar 29;223(6):1029-1039. PMID: PMC8006423.
  171. Stielper ZF, Fucich EA, Middleton JW, Hillard CJ, Edwards S, **Molina PE**, Gilpin NW. Traumatic brain injury and alcohol drinking alter basolateral amygdala endocannabinoids in female rats. *J Neurotrauma*. 2021 Feb 15;38(4):422-434. PMID: PMC7875607.
  172. Marcellin F, Jaquet A, Lazarus JV, **Molina P**, Carrieri P. alcohol use disorder and hepatitis c prevention and care in people who inject drugs: The state of play. *Semin Liver Dis*. 2020 Aug 26. doi: 10.1055/s-0040-1716343. PMID: 32851613.
  173. Levitt DE, Chalapati N, Prendergast MJ, Simon L, **Molina PE**. Ethanol-impaired myogenic differentiation is associated with decreased myoblast glycolytic function. *Alcohol Clin Exp Res*. 2020 Sep 17. PMID: PMC7680427
  174. Levitt DE, Chalapati N, Prendergast MJ, Simon L, **Molina PE**. Ethanol-impaired myogenic differentiation is associated with decreased myoblast glycolytic function. *Alcohol Clin Exp Res*. 2020 Nov;44(11):2166-2176. PMID: PMC7680427.
  175. Lin HY, Wang X, Tseng TS, Kao YH, Fang Z, **Molina PE**, Cheng CH, Berglund AE, Eeles RA, Muir KR, Pashayan N, Haiman CA, Brenner H, Consortium TP, Park JY. Alcohol Intake and alcohol-SNP interactions associated with prostate cancer aggressiveness. *J Clin Med*. 2021 Feb 2;10(3):553. PMID: PMC7867322.
  176. Gu M, Samuelson DR, Taylor CM, **Molina PE**, Luo M, Siggins RW, Shellito JE, Welsh DA. Alcohol-associated intestinal dysbiosis alters mucosal-associated invariant T-cell phenotype and function. *Alcohol Clin Exp Res*. 2021 Mar 11. Epub ahead of print. PMID: 33704802.
  177. Maxi JK, Foret BL, Amedee AM, McDaniel LS, Nelson S, Simon L, Edwrds S, **Molina PE**. Antiretroviral therapy (ART) administration reduces neuroinflammation without restoring brain-derived neurotrophic factor (BDNF) signaling in alcohol-administered simian immunodeficiency virus-infected macaques. *AIDS* 2021, 35. Accepted 16 March 2021. NIHMS1685554

178. Hahn JA, Murnane PM, Vittinghoff E, Muyindike WR, Emenyonu NI, Fatch R, Chamie G, Haberer JE, Francis JM, Kapiga S, Jacobson K, Myers B, Couture MC, DiClemente RJ, Brown JL, So-Armah K, Sulkowski M, Marcus GM, Woolf-King S, Cook RL, Richards VL, **Molina P**, Ferguson T, Welsh D, Piano MR, Phillips SA, Stewart S, Afshar M, Page K, McGinnis K, Fiellin DA, Justice AC, Bryant K, Saitz R. Factors associated with phosphatidylethanol (PEth) sensitivity for detecting unhealthy alcohol use: An individual patient data meta-analysis. *Alcohol Clin Exp Res*. 2021 Apr 10. PMID: 33837975.
179. *Thinking through FUNCTION during COVID-19. Function. American Physiological Society. Accepted 2020 Sep 14*
180. **Molina PE**. Invited Review on: Alcohol and disease; A physiological perspective. *Annual Review of Physiology*. Forthcoming – February 2021.
181. Primeaux SP\*, Simon L\*, Ferguson TF, Levitt DE, Brashear MM, Yeh A, **Molina PE**. Alcohol use and dysglycemia among people living with HIV in the ALIVE-Ex Study. *Alcohol Clin Exp Res*. Submitted 2021 Apr 12.

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

1. **Molina PE**. Teenage alcohol use—Is it a problem. *Jaynotes: The Magazine of Jesuit u in New Orleans*. 2002;9-11.
2. **Molina PE**. Surviving adversity and embracing new challenges. *Physiologist*. 2010;53(1):13-15.
3. Barrett KE, **Molina PE**, Pollock DM. A joy for (the science of) life! *Physiology (Bethesda)*. 2014;29(6):382-383.
4. **Molina PE**, Pollock DM, Barrett KE. Physiology—Still the one! *Am Biol Teach*. 2014;76(9):572-573.
5. **Molina PE**. 88<sup>th</sup> President of the APS. *Physiologist*. 2015;58(2):63, 66-71.
6. **Molina PE**, Horwitz B, Carey HV, Barman SM, Barrett KE, Reckelhoff JF. How diversity is becoming a reality in the American Physiological Society. *Physiologist*. 2015;58(4):159, 161-156.
7. Pollock DM, Reckelhoff JF, **Molina PE**. Physiologists can answer big questions. *Physiology (Bethesda)*. 2015;30(6):402-403.
8. Sandberg K, Umans JG. Recommendations concerning the new U.S. National Institutes of Health initiative to balance the sex of cells and animals in preclinical research. *FASEB J*. 2015;29(5):1646-1652. **\*Workgroup Participant**
9. Cannon AR, Morris NL, Hammer AM, Curtis B, Remick DG, Yeligar SM, Poole L, Burnham EL, Wyatt TA, **Molina PE**, So-Armah K, Cisneros T, Wang G, Lang CH, Mandrekar P, Kovacs EJ, Choudhry MA. Alcohol and inflammatory responses: Highlights of the 2015 alcohol and immunology research interest group (AIRIG) meeting. *Alcohol*. 2016;54:73-77. PMID: PMC5003611
10. Reckelhoff JF, Brown D, **Molina PE**. APS takes a look in the mirror. *Physiology (Bethesda)*. 2016;31(6):384-385. doi: 10.1152/physiol.00023.2016

### **Books**

Molina PE. *Endocrine Physiology*. 1<sup>st</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2004.

Molina PE. *Endocrine Physiology*. 2<sup>nd</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2006.

Molina PE. *Endocrine Physiology*. 3<sup>rd</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2010.

Molina PE. *Endocrine Physiology*. 4<sup>th</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2013.

Molina PE. *Endocrine Physiology*. 5<sup>th</sup> ed. New York: Lange Medical Books/McGraw-Hill Medical Pub. Division; 2018.

### **Book Chapters**

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

12. The Hypothalamus and Posterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
13. Anterior Pituitary Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
14. Thyroid Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
15. Parathyroid Gland and Calcium and Phosphate Regulation. In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
16. Adrenal Gland, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
17. Endocrine Pancreas, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
18. Male Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
19. Female Reproductive System, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
20. Endocrine Integration of Energy and Electrolyte Balance, In: Medical Physiology: A Systems Approach. Ed; H. Raff & M. Levitzky. McGraw-Hill, New York. ISBN: 9780071621731
21. Cannabinoids. In: Neuroinflammation and Neurodegeneration. Peterson and Torborek (eds.), Springer Science + Business Media, New York, NY, 2014. Katz PS, Edwards S, **Molina PE**.
22. Katz PS, **Molina PE**. (2018). A Lateral Fluid Percussion Injury Model for Studying Traumatic Brain Injury in Rats. In: Tharakan B. (eds) Traumatic and Ischemic Injury. Methods in Molecular Biology, vol 1717. Humana Press, New York, NY
23. Jacotte-Simancas A, Fucich EA, Stielper ZF, **Molina PE**. (2021). Traumatic Brain Injury and the Misuse of Alcohol, Opioids, and Cannabis. In: International Review of Neurobiology (IRN). Volume 156: Neurobiology of Addiction and Co-Morbid Disorders. Eds; N. Gilpin & E. Calipari. Academic Press. ISBN: 978-0-12-820355-2
24. **Molina PE**, Stielper Z, Edwards S, Gilpin NW. Neuroscience of TBI. Submitted October 2020.

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

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

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

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

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

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



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

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

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

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

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

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

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

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

Sympathetic modulation of hemorrhage-induced increase in tissue cytokines. Inflammation and the surgical patient: Mechanisms and therapy in trauma and burns. Snowbird, UT. January 31-February 4, 1998.

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

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

Speaker. Panel on Pathophysiology and Metabolic Sequelae. Cytokines in hemorrhagic shock. Conference on Resuscitation Fluid Design and Resuscitation Protocols for Combat Casualties. National Academy of Sciences. Washington DC. September 17-18, 1998.

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

Neuroendocrine responses to hemorrhagic shock; impact on cytokine responses. ONR workshop on basic and applied combat casualty care research. Philadelphia, PA. June 10-12, 1999.

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

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

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

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

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

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

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

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

Organizer. Cytokines & the Brain, A Satellite Symposium for the Neuroscience 30<sup>th</sup> Annual Meeting, Cytokines in Ischemia: Neurotoxic or Neuroprotective? Overview and Introduction. November 2-4, 2001.

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

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

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

Organizer and chair. Neural immune mechanisms in innate host defense: Do they contribute to alcohol immunosuppression? New Orleans, LA. Sponsored by the International Society for NeuroImmunoModulation. April 20, 2002.

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

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

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

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

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 City, Guatemala. May 9, 2003.

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

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

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

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

Development of a model to examine the impact of stress on outcome from trauma. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg FL. September 18-20, 2003.

Contribution of analgesia to impaired outcome from trauma/hemorrhage. Advanced Technology Applications for Combat Casualty Care (ATACCC) Conference. St. Petersburg, FL. September 18-20, 2003.

Planning Subcommittee. Neurobiology of stress. National Hispanic Science Network on Drug Abuse Annual meeting: Stress and addiction; from molecule to neighborhood. October 2-5, 2003.

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

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

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

Multiple organ failure post trauma. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández. Universidad Matías Delgado. San Salvador, El Salvador. May 13-15, 2004.

Sepsis, endothelium and interleukins. VII Congreso de Estudiantes de Medicina Dr. Juan Jose Fernández. Universidad Matías Delgado. San Salvador, El Salvador. May 13-15, 2004.

Neuroendocrine regulation of inflammatory responses to trauma. VII Congreso de Estudiantes de Medicina. Dr. Juan Jose Fernández, Universidad Matías Delgado. San Salvador, El Salvador. May 13-15, 2004.

Impact of alcohol intoxication on outcome from trauma/hemorrhage. VII Congreso de Estudiantes de Medicina. Dr. Juan Jose Fernández, Universidad Matías Delgado, San Salvador, El Salvador. May 13-15, 2004.

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

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

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

Chronic alcohol exacerbates muscle pro-inflammatory response during end-stage SIV infection; Implications for muscle protein turnover and preservation of lean body mass. Experimental Biology. San Diego, CA. April 3, 2005.

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

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

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

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

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

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

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

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

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

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

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

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

Impact of alcohol intoxication on outcome from hemorrhagic shock. VII Congreso Internacional en Adicciones y 5 Curso de Actualización en Adicciones: de la Ciencia Básica a la Clínica. Guadalajara, Mexico. April 29, 2006.

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

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

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

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

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

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

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

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

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

Chronic alcohol use and progression of AIDS wasting. 2<sup>nd</sup> 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. School of Allied Professions Dean's Distinguished Lecture Series. LSUHSC. New Orleans, LA. November 7, 2008.

Alcohol interaction with host defense in traumatic injury. Alcohol, Leukocytes, and Host Defense Satellite Symposia. Denver, CO. November 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. Diplomado en Investigación Genómica. January 23, 2009.

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

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

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

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

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

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

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

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

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

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

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

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

The balancing act: Being a principal investigator and administrator in academia. ASPET Committee on Diversity Symposia: Traditional and Alternative Career Paths in Rough Economic Time. Experimental Biology. Anaheim, CA. April 24, 2010.

ISBRA World Congress. Paris, France. September 13-16, 2010. Chronic  $\Delta 9$ -THC modulation of Simian immunodeficiency virus infection. 21<sup>st</sup> Annual Symposium of the International Cannabinoid Research Society. Pheasant Run, St. Charles, IL. July 6-9, 2011.

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

Alcohol and drug abuse risk factors and modulators of HIV infection. Society for the Advancement of Chicanos and Native Americans in Science. San Jose, CA. October 24, 2011.

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

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

- Systems approach to unraveling mechanisms of alcohol &  $\Delta^9$ -THC modulation of Simian immunodeficiency virus infection. Society for Neuroimmune Pharmacology. Honolulu, HI. April 29, 2012.
- Organizer/Chair and Speaker. Core mechanisms of alcohol-induced multi-organ & tissue injury. Research Society on Alcoholism, 35th Annual Scientific Meeting. San Francisco, CA. June 26, 2012.
- Organizer/chair and introduction. Stem cells and epigenetics; research at the frontier of biomedical consequences of chronic alcohol consumption. Research Society on Alcoholism. San Francisco, CA. June 2012.
- Systems approach to unraveling mechanisms of chronic  $\Delta^9$ -THC modulation of simian immunodeficiency virus infection. Drugs of abuse-HIV infection and NeuroAIDS-A Global scenario. 3<sup>rd</sup> World Congress on Biotechnology at HICC, Hyderabad, India. September 15, 2012.
- Alcohol and drugs of abuse interaction with HIV/AIDS; Systems biology approach in the SIV-infected macaque. Society for Leukocyte Biology Annual Meeting. Maui, HI. October 27, 2012.
- Systems approach to unraveling mechanisms of alcohol &  $\Delta^9$ -THC modulation of simian immunodeficiency virus infection. SNIP, Puerto Rico. April 3-5, 2013.
- Impacto del alcohol en el progreso del VIH. Impact of alcohol on progression of HIV; NOAIDS Task Force; New Orleans, LA. May 29, 2013.
- Alcohol and drugs of abuse: Beyond risk of HIV/AIDS. Interdisciplinary Training Institute, National Hispanic Science Network on Drug Abuse. University of Southern California, School of Social Work. Los Angeles, CA. June 5-15, 2013.
- Animal models for alcoholic liver disease (ALD) and beyond: Can they help us move from bench to bedside? Satellite Meeting at Research Society on Alcoholism 36<sup>th</sup> Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
- Organizer/Chair. Neuroendocrine mechanisms of alcohol related behavioral and medical consequences. Research Society on Alcoholism 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
- Organizer/Chair. Alcohol's burden on HIV/AIDS and the promise of brief multi-risk interventions. Research Society on Alcoholism. Ft. Lauderdale, FL. June 22-26, 2013.
- Differential regulation of skeletal muscle gene expression in chronic binge alcohol-administered simian immunodeficiency virus-infected macaques. Research Society on Alcoholism 36th Annual Scientific meeting, Ft. Lauderdale, FL. June 22-26, 2013.
- Alcohol and HIV. Webinar, Delta AETC, LSUHSC HIV Outpatient Clinic. New Orleans, LA. November 26, 2013.
- Alcohol and HIV/AIDS disease progression; Translating basic science derived knowledge to the clinical setting. Plenary NHSN Conference, Bethesda, MD. October 10, 2013.
- Alcohol and trauma: Immunologic consequences. Symposia Session 1. Organizer/Chairs: Elizabeth Kovacs and Patricia Molina. 37<sup>th</sup> Annual RSA Scientific Meeting and 17<sup>th</sup> Congress of ISBRA. Bellevue, WA. June 21, 2014.
- Poster. Chronic binge alcohol (CBA) consumption accentuates skeletal muscle and adipose tissue metabolic dysfunction in simian immunodeficiency virus (SIV) infected male rhesus macaques. 1<sup>st</sup> PanAmerican Congress of Physiological Sciences. Brazil. August 3, 2014.

Use of addictive substances and neuroinflammation of HIV infection. NHSN 14<sup>th</sup> Annual International Conference, Resiliency and Neuroplasticity Among Vulnerable Populations-Towards a Synchrony of Disciplines. The University of Texas at El Paso. September 3-September 6, 2014.

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

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

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

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

Organizer. Novel insights into inflammatory mechanisms of alcohol-induced tissue injury. 38<sup>th</sup> Research Society on Alcoholism Scientific Meeting. San Antonio, TX. June 20-24, 2015.

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

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

Speaker. Alcohol-neuroimmune interactions in traumatic brain injury. Alcohol and Immunology Research Interest Group (AIRIG) satellite meeting at the 48<sup>th</sup> Annual Meeting of the Society for Leukocyte Biology: Immunity in Health and Disease. Raleigh, NC. September 27-29, 2015.

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

Plenary Speaker. Translational studies on the impact of chronic alcohol abuse on HIV/AIDS. Annual Biomedical Research Conference for Minority Students (ABRCMS). Seattle, Washington. November 11-14, 2015.

Organizer. The APS President's Symposium Series: Physiological mechanisms responsive to behavioral and environmental challenges. Experimental Biology 2016. San Diego, CA. April 3-6, 2016. \*Review (summary and critical commentary): Souza-Smith FM, Lang CH, Nagy LE, Bailey SM, Parsons LH, Murray G. APS President's Symposium Series - Physiological Processes Underlying Organ Injury in Alcohol Abuse. Am J Phys Enocrinol Metab 2016.

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

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

Organizer/Speaker. Overview of the LSUHSC-NO Alcohol/HIV-AIDS Research Center University Medical Center. New Orleans, LA. June 25, 2016. LSUHSC Scientific Satellite: Alcohol

- abuse co-morbidities & triggers for addiction.\*Offsite satellite preceding the 39<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting.
- Organizer. Symposium: Alcohol & traumatic brain injury: intersection of neuroimmune and behavioral mechanisms from injury to recovery. 39<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. New Orleans. June 26, 2016.
- Poster. Skeletal muscle and adipose mechanisms contributing to metabolic dysfunction in chronic alcohol administered simian immunodeficiency virus-infected male macaques. July 29. Physiology 2016: Joint Meeting of the American Physiological Society and the Physiological Society. Convention Centre Dublin, Ireland. July 29-31, 2016.
- Physiology; the basic to translational science bridge. Strategic Workshop – Rhythms of Life: Perspectives for Physiological Sciences in the 21<sup>st</sup> Century (Satellite of the Annual Congress of the Brazilian Society of Physiology). University of São Paulo, Brazil. August 25, 2016.
- Physiological mechanism underlying alcohol-induced tissue injury. NIAAA-ESBRA Joint Symposium: Mechanism for Alcohol-Induced Organ Damage. ISBRA ESBRA World Congress on Alcohol and Alcoholism. Berlin, Germany. September 2-5, 2016.
- Symposium 9: Immunopathology of Traumatic Brain Injury. Alcohol-neuroimmune interactions in traumatic brain injury. 8<sup>th</sup> Congress of the International Federation of Shock Societies (IFSS2016). Tokyo, Japan. October 3-5, 2016.\*Nominated
- Panel on “Stress, habits, hormones and trauma: An endocannabinoid link in alcohol-related pathologies.” 55<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology. Hollywood, Florida. December 4-8, 2016.
- Alcohol-SIV/HIV-ART interactions promote metabolic dysregulation. Gordon Research Conference on Alcohol-Induced End Organ Diseases, Metabolic Reprogramming and Molecular Mechanisms of Tissue Injury by Alcohol. Four Points Sheraton/Holiday Inn Express. Ventura, CA. March 26-31, 2017.
- Speaker. Session II: Alcohol and HIV. INSERM – NIH Special Symposium. Reducing the Burden of Harmful Alcohol Use: Opportunities for Collaborative Research. Bordeaux, France. May 16, 2017.
- Speaker. Alcohol interaction with HIV disease: Translational approach to understanding mechanisms and comorbidities. Interdisciplinary Research Training Institute on Hispanic Drug Abuse (IRTI) 6<sup>th</sup> Annual Summer Training Program, June 5-11, 2017 (June 8).
- Presentation to Summer Research Program students. Department of Genetics Summer Research Program Seminar Series. LSUHSC. New Orleans, LA. June 12, 2017.
- Speaker. Alcohol-neuroimmune interactions in traumatic brain injury. Alcohol and Immunology Research Interest Group (AIRIG) satellite session at the 40<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting. Denver, CO. June 24, 2017.
- Discussant. Symposia session III: Role of alcohol in the pathogenesis of viral and bacterial infections. 40<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. Denver, CO. June 25, 2017.
- Speaker. Symposium: Assessing changes in cognitive and affective behavior in models of acute neurologic injury. Behavioral correlates of TBI neuropathology; underlying mechanisms of escalated alcohol drinking. Mayeux, Jacques; Stiepler, Zack; Gilpin, Nicholas; Middleton, Jason; Edwards, Scott; **Molina, Patricia**. International Behavioral Neuroscience Society (IBNS). Hiroshima, Japan. June 28, 2017



International Scientific Programming Committee (ISPS). International Union of Physiological Sciences (IUPS) Congress. Rio de Janeiro, Brazil. August 1-5, 2017.

Speaker. Women in Science 1. Presidents of physiological societies: Equality and differences. International Union of Physiological Sciences (IUPS) Congress. Rio de Janeiro, Brazil. August 2, 2017.

Alcohol-SIV/HIV-ART interactions in physiology: From a translational team science perspective. Department of Physiology Seminar Series. LSUHSC. New Orleans, LA. August 31, 2017.

Speaker. Symposium: Alcohol potentiates the pathogenesis of viral infections. ISBRA ESBRA World Congress on Alcohol and Alcoholism. Crete, Greece. October 8-11, 2017.

Research update: Translational studies on the impact of alcohol on HIV pathogenesis: The relevance of team science. Department of Medicine Infectious Diseases Section Research Conference. LSUHSC. New Orleans, LA. October 26, 2017.

Alcohol misuse: What should you know? LSUHSC Peer Advocate (PAL) Program and Campus Assistance Program presentation. LSUHSC. New Orleans, LA. November 15, 2017.

Women in academia: Panel discussion on removing the barriers to success. Hosted by the The Association for Women in Science – Southern Louisiana Chapter in conjunction with LSU Health New Orleans. LSUHSC. New Orleans, LA. January 24, 2018.

Alcohol misuse: What should you know? Department of Obstetrics and Gynecology. LSUHSC. New Orleans, LA. February 21, 2018.

Organizer. Symposia Session II: Comorbidities promoting excessive alcohol drinking. 41<sup>st</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. San Diego, CA. June 17, 2018

Speaker. Symposia Session IV: HIV and alcohol co-morbidities: Multi-organ injury. Alcohol-SIV/HIV-ART interactions & resulting comorbidities. 41<sup>st</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. San Diego, CA. June 18, 2018

Poster presentation. At risk alcohol consumption increases risk for metabolic comorbidities in persons living with HIV (PLWH). 22<sup>nd</sup> International AIDS Conference. Amsterdam, Netherlands. July 24, 2018.

Co-organizer/Co-chair/Speaker. Symposium: HIV and alcohol co-morbidities: Pathogenesis and treatment. Alcohol-SIV/HIV-ART interactions & metabolic comorbidity pathways. 19<sup>th</sup> Congress of International Society for Biomedical Research on Alcoholism (ISBRA). September 2018.

Speaker. Scientific Session 5: A historical perspective of drug abuse research from a veterana to the next generation of scientists. Alcohol interaction with HIV disease: Translational approach to understanding mechanism & comorbidities. 18<sup>th</sup> International National Hispanic Science Network Conference. Rockville, MD. October 5, 2018.

Invited plenary speaker. Impact of alcohol on HIV disease progression. Frontiers in Translational Medicine Conference. Institute for Translational Research in Biomedicine at Chang Gung Memorial Hospital. Kaohsiung, Taiwan. November 16-17, 2018.

Speaker. Alcohol & metabolic dysregulation in HIV mechanisms underlying risk for comorbidities. School of Medicine Dean's Research Seminar Series. LSUHSC, New Orleans, LA. December 12, 2018.

Invited symposium speaker. Panel: But can I still ski?: Effects of traumatic brain injury on emotion and motivated behavior. Behavioral correlates of TBI neuropathology; Underlying

mechanisms of escalated alcohol drinking. Winter Conference on Brain Research. Snowmass, CO. January 28-February 2, 2019.

Organizer. The GRC Power House [to address challenges women face in science and issues of diversity and inclusion. The program supports the professional growth of all members of our communities by providing an open forum for discussion and mentoring.] March 25, 2019.

Invited speaker. Systemic effects of alcohol: Cross-talk between multiple organs. Alcohol, aging, and HIV; Dissecting mechanisms driving enhanced comorbidities. Gordon Research Conference on Alcohol-Induced End Organ Diseases. Ventura, CA. March 28, 2019.

Chair. Updating the history of insulin; Novel insights into regulation of release, delivery, and functions history of physiology group. Experimental Biology. Orlando, FL. April 8, 2019. Chair: Dr. Patricia Molina; Co-Chair: Dr. Flavia Souza-Smith

Keynote speaker. Alcohol Interaction with HIV Disease: Translational approach to understanding mechanism & comorbidities. 2<sup>nd</sup> PanAmerican Congress of Physiological Sciences. Havana, Cuba. May 29, 2019.

Discussant/Moderator. Symposia Session III: Ethanol and adipose tissue: What do we know now and where are we going in the future? 42<sup>nd</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. Minneapolis, MN. June 23, 2019.

Speaker. Symposia Session VIII: Role of non-genetic risk factors in exacerbating alcohol-related organ damage. Mechanisms underlying risk for comorbidities associated with at-risk alcohol consumption: Metabolic instability in persons living with HIV (PLWH). 42<sup>nd</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting. Minneapolis, MN. June 25, 2019.

Speaker. Session IX: HIV-Infections and drug abuse. Alcohol-SIV/HIV-ART interactions & risk for comorbidities. 7<sup>th</sup> International Drug Abuse Research Society: Recent Advances in Drug Addiction. Casablanca, Morocco. September 2-6, 2019.

Speaker. Alcohol and Drug Abuse Center of Excellence: Discovering Neuropathological Mechanisms of Comorbid Conditions. 2<sup>nd</sup> Annual BIO on the Bayou (BotB): An Academic Research Expo hosted by LSU Health, Tulane University, and the New Orleans BioInnovation Center (NOBIC), New Orleans, LA. December 10, 2019.

Speaker/Panelist. Alcohol interactions with HIV disease: Translational approach to understanding mechanisms and comorbidities [Panel]. Interdisciplinary Research Training Institute on Hispanic Drug Abuse (IRTI) Annual Summer Training Program. June 23, 2020. \*eIRTI 9 (held via Zoom due to COVID-19)

Invited Keynote Speaker. Alcohol Interaction with HIV Comorbidities. Annual Federal Women's History Heritage Month Observance. New Orleans VA Medical Center, Southeast Louisiana Veterans Health Care System, US Department of Veterans Affairs. New Orleans, LA. August 28, 2020. (held via Zoom due to COVID-19)

*Chair (Scott Edwards and Patricia Molina). Neuroendocrine Mechanisms of Stress & Alcohol Use Disorder. Alcoholism and Stress: A Framework for Future Treatment Strategies. Volterra, Italy. May 5-8, 2020. postponed due to COVID-19*

*Invited Leader of Discussion on "Alcohol and Lifespan." Gordon Research Conference on Alcohol-Induced End Organ Diseases. Ventura, CA. May 30-June 4, 2021.*

#### **Visiting lectureships/seminars:**

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

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

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

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

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

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

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

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

Systems approach to understanding alcohol & drugs of abuse interaction with HIV/AIDS. Division of Infection, Inflammation and Vascular Biology, Department of Surgery and Pharmacology, University of Minnesota, MN. November 14, 2011.

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

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

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

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

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

Grit, resilience, courage, and enthusiasm; Movers and shakers of professional success. Women in Medicine and Science Group. Physiology Seminar Series. University of Mississippi Medical Center. Jackson, MS. January 28, 2015.

Biomedical consequences of chronic alcohol in HIV infection. Advances in Molecular and Cellular Pathology Seminar Series. University of Alabama Department of Pathology. Birmingham, AL. February 9, 2015.

Physiology: From a translational team science perspective. Strategic Workshop–Rhythms of Life: Perspectives for Physiological Sciences in the 21st Century. Brazilian Society of Physiology. Universidade de São Paulo. São Paulo, Brazil. August 25, 2016.

Alcohol interaction with HIV disease; Translational approach to understanding mechanisms & comorbidities. Department of Physiology Research Weekly Seminar Series. University of Louisville. Louisville, KY. September 13, 2016.

Alcohol-neuroimmune interactions in traumatic brain injury. University of New Orleans Department of Biological Sciences Seminar. New Orleans, LA. September 26, 2016.

Alcohol interaction with HIV disease; Translational approach to understanding mechanisms & comorbidities. A. Ross McIntyre Cardio-Renal Seminar Series (endowed lectureship),

- Department of Cellular and Integrative Physiology, University of Nebraska Medical Center. Omaha, NE. November 17-18, 2016.
- Traumatic brain injury lecture for Nervous System course (alumni guest lecture). Universidad Francisco Marroquín School of Medicine. Guatemala City, Guatemala. January 21, 2017.
- Alcohol interaction with HIV disease; Translational approach to understanding mechanisms & comorbidities. Mayerson-DiLuzio Lectureship, Department of Physiology, Tulane University. New Orleans, LA. March 13, 2017.
- Alcohol interaction with HIV disease; translational approach to understanding mechanisms & comorbidities. Meharry Medical College Student Research Day (keynote lecture). Nashville, TN. March 15, 2017.
- Southwest Regional Latino Medical Student Association (LMSA) Conference. Louisiana State University School of Medicine. New Orleans, LA. January 20, 2018.
- Dr. Herbert and Nicole Wertheim Leadership in Healthcare and Medicine Lectureship. Florida International University. Miami, FL. February 7, 2018.
- Pioneer in Addiction Research Award Lecturer. Frontiers in Addiction Research and Pregnancy, Morehouse School of Medicine (MSM). Atlanta, GA. October 12, 2018.
- Alcohol Interaction with HIV Disease; Translational approach to understanding mechanisms & comorbidities. Dean's Lecture. Yale School of Public Health. New Haven, CT. January 23, 2019.
- Translational approach to the study of alcohol interaction with HIV. NIH/NIAAA Research Seminar. Rockville, MD. April 25, 2019.
- Keynote speaker. California State University – Long Beach 2019 BUILD Commencement. Long Beach, CA. May 3, 2019.
- Alcohol-SIV/HIV-ART Interactions; Understanding the Mechanisms Underlying Risk for Comorbidities. University of Georgia (UGA) Department of Physiology and Pharmacology virtual seminar. October 12, 2020.
- The uncharted road to translational study of the biomedical comorbidities associated with risky alcohol use; A personal perspective. Diversity, Equity and Inclusion Working Group of the Graduate School of the Biomedical Sciences (GSBS) at the University of North Texas Health Science Center Virtual Seminar Series. October 20, 2020.
- Invited Seminar Speaker. Translational approach to understanding the interaction of alcohol and HIV disease. Molecular & Integrative Physiology (MIP) Departmental seminar series. University of Michigan. [Virtual]. October 28, 2020.
- Virendra B. Mahesh Lectureship. Translational approach to the study of the impact of unhealthy alcohol use on HIV disease; Integrating training and mentoring in the advancing of science. Medical College of Georgia at Augusta University. [Virtual]. April 15, 2021
- Invited Speaker. Shock Society Virtual Webinar Series. Unravelling the neurobiological consequences of traumatic brain injury. July 14, 2021.

**Lectureships, refresher courses, and workshops:**

Lecturer. APS Professional Development Skills Workshops. 2006–2008.

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

Co-chair. Workshop 3: Undergraduate Teaching and the Physiology Pipeline, Association of Chairs of Departments of Physiology Leadership Retreat. 2014.

Georgetown Consensus Conference Work Group–NIH Sex Differences Policy. 2014.

Instructor. APS Professional Skills Training Course, Writing and Reviewing for Scientific Journals. 2014-2015.

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

What you might not see in your CV. APS Leadership and Management Skills Symposium. Demonstrating leadership and management in practice: Examples of success and errors. Experimental Biology 2016. San Diego, CA. April 5, 2016.

Presenter. Presentation Skills Workshop. International Early-Career Symposium (IECS) 2017. Rio de Janeiro. July 31, 2017.

Presenter. National Institute on Drug Abuse (NIDA) and National Institute on Alcohol Abuse and Alcoholism (NIAAA) Diversity Supplements Workshop, NIDA and NIAAA T32 Directors Panel Session. Rockville, MD. March 12-13, 2018.

Keynote Lecturer. Pioneer in Addiction Research Award. Frontiers in Addiction Research and Pregnancy. Morehouse School of Medicine. Atlanta, GA. October 12, 2018.

Discussion lead. “Networking Effectively” Minority Travel Networking Lunch. Experimental Biology 2019. Orlando, FL. April 8, 2019.

Organizer. Pre-Congress Course 1: Fundamentos en Taller de Investigación Fisiológica (Basics in Physiological Research Workshop). 2<sup>nd</sup> PanAmerican Congress of Physiological Sciences. Instituto de Ciencias Básicas y Preclínicas. Havana, Cuba. May 27, 2019.

Panelist. Panel Discussion: Pathways to Leadership. Association of American Medical Colleges (AAMC) Mid-Career Women Faculty Leadership Development Seminar. New Orleans, LA. December 10, 2019.

Organizer. Association of Chairs of Departments of Physiology (ACDP) Annual Leadership Retreat. Antigua, Guatemala. December 5-8, 2019.

Teamwork/Collaborative Science Moderator. Professionalism Course for first year graduate students. LSUHSC. New Orleans, LA. April 2, 2020.

Invited Plenary Speaker. “Diversifying the Biomedical Workforce: Critical, Urgent, and Long Overdue.” Brown University Center for Disease Risk Exacerbation (CADRE) a NIH Center of Biomedical Research Excellence (COBRE) Annual Symposium and Retreat. [Virtual due to COVID-19]. September 14, 2020.

**Editorial Posts and Activities:**

**Review Board Membership:**

Shock Journal (-2018)

American Journal of Physiology; Endocrinology and Metabolism

Addiction Science & Clinical Practice

International Journal of Clinical and Experimental Medicine

Alcoholism: Clinical and Experimental Research (Field Editor, 2017–Pres.)

Current Pathobiology Reports, The Pathobiology of Alcohol Consumption, Volume 8 (Co-Section Editor, 2020)

APS *Physiology* (Editorial Board Member, 2019–Pres.)

APS *Function* (Founding Editorial Group member, 2019–Pres.)

**Guest Reviewer/Editor:**

Life Sciences

Journal of Neuroimmunomodulation

Brain Research

Alcoholism: Clinical and Experimental Research (Field Editor, 2017-)

Cytokine

Journal of Applied Physiology

Critical Care Medicine

Psychoneuroendocrinology

Journal of Neuroimmunopharmacology

Oxidative Medicine and Cellular Longevity

Alcohol & Alcoholism

**SERVICE ACTIVITIES**

**Extramural Appointments and Offices Held:**

2003–2007      Councilor, APS Endocrine and Metabolism section  
2003–2007      Member and Chair, APS International Committee  
2003–Pres.      Member, NHSN Steering Committee  
2003–2004      President, Gulf Coast Physiological Society  
2004–2008      Basic Science Councilor, Shock Society  
2003–2010      Councilor, Endocrine and Metabolism Section, APS  
2004–Pres.      Chair, Membership Subcommittee NHSN  
2004              Member, NIDA Minority Health Disparities Work Group  
2004–2007      Member at Large, US National Committee for the International Union of  
Physiological Sciences (USNC/IUPS)  
2008–2011      Chair, Porter Development Committee, American Physiological Society  
2010–2012      Councilor, Association Chairs Department of Physiology (ACDP)  
2008–2011      Council Member, AHA Southeastern Affiliate  
2010–Pres.      Chair, National Hispanic Science Network (NHSN)  
2011–2014      Councilor, American Physiological Society  
2012–2016      Member, National Advisory Council on Alcohol Abuse and Alcoholism  
2015              President, American Physiological Society  
2016–2021      External Advisory Board Member, University of Louisville NIH P50 Alcohol  
Research Center (PI: Craig McClain)  
2017              Council Liaison, Committee on Honors, American Physiological Society  
2017              Council Liaison, Trainee Advisory Committee, American Physiological Society  
2017–              External Advisory Board Member, Northern Ohio Alcohol Center NIH P50 (PI:  
Laura Nagy)  
2017–2020      Representative of the Committee on Committees of the Endocrinology and  
Metabolism Section, American Physiological Society  
2017–2021      Treasurer, International Union of Physiological Sciences (IUPS, nominated)  
2018              Executive Director Search Committee, American Physiological Society  
2018–2019      President, Association of Chairs of Departments of Physiology (ACDP)  
2019              Vice President/President-Elect, Research Society on Alcoholism (RSA)  
2020              President, Research Society on Alcoholism (RSA; inducted June 2020)  
2021–              Scientific Advisory Board Member, University of North Carolina Chapel Hill  
Bowles Center for Alcohol Studies (BCAS)

**University/Institutional Service:**

2000	Participating Host Faculty for Minority Research Day
2000	LSUHSC Biomedical Research Fund Review Committee
2001–2004	Reviewer/Judge, Medical Student Summer Research Proposals/Presentations
2001–2003	Judge, Poster and Oral Presentations, Department of Medicine Research Day
2002–2014	Institutional Animal Care and Use Committee (IACUC)
2002–2014	Animal Care Advisory Committee
2002–2008	Faculty Assembly
2002–2008	Physiology Graduate Student Committee
2003–Pres.	MD/PhD Admissions Committee
2003–Pres.	Diversity Committee (Vice Chair, Multicultural and Diversity Subcommittee, 2010-2019)
2003–2005	Advisory Board Clinical Research Center
2005–Pres.	Interdisciplinary Program (IDP) Mentoring Committee
2006–2014	Graduate Advisory Council
2006–2008	Appointments, Promotions, and Tenure Committee
2008–2009	Chair, Communications committee
2008–2009	LCME Self Study Committee
2008–2009	Pathology Chair Search Committee
2009–2011	Panelist for Appointment, Promotion, and Tenure Workshop, LSUHSC
2010–2011	Surgery Chair Search Committee
2010–2011	Cardiology Chief Search Committee
2010–Pres.	Outreach Committee
2010–Pres.	Chair, Communications Work Group
2013–Pres.	Strategic Planning Steering Committee
2013–Pres.	Chair, Communications Work Group
2016	AAMC Faculty Forward ad hoc Task Force, LSUHSC
2016	Member, Louisiana Research Showcase organizing team
2016	Member, Search Committee for Senior Associate Dean for Faculty and Institutional Affairs
2016	Faculty, La AIDS Education and Training Center (LaAETC)
2016–2017	LCME Self Study, Subcommittee 8–Curricular Management, Evaluation, and Enhancement
2017	Louisiana Clinical and Translational Science Center (LA CaTS) Scientific Review Committee for Roadmap Scholarship Applications
2017–	Advisory Board Member, Latino Scholars Program
2019–2020	Search Committee for Department Head of Anesthesiology
2020	Interview and Advisory Committee for Assistant Vice Chancellor for Human Resources
2020	Chair, Search Committee for Vice Chancellor for Diversity & Inclusion Search Committee

**Special Assignments:**

2016	Co-chair, RSA Annual Scientific Conference Program Committee
2016–2017	International Scientific Planning Committee for the International Union of Physiological Sciences (IUPS) Congress 2017, August 1-5, Rio de Janeiro, Brazil
2017	Representative of the American Physiological Society to the General Assembly of the International Union of Physiological Sciences (IUPS), (IUPS) Congress 2017, August 1-5, Rio de Janeiro, Brazil

2017 Chair, External Review Committee for Endowed Chair of Physiology, Department of Neurobiology, Physiology, and Behavior, University of California, Davis

**Community Service and Outreach Activities:**

Lector, St. Francis Xavier Church, Metairie, LA

Board Member, Council on Alcohol and Drug Abuse (CADA) for Hispanic Initiative

Vice President, Hispanic American Medical Association of Louisiana. 2007-2009.

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

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

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

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

**Local school presentations and volunteer work:**

Presentation on “What alcohol can do to your brain.” Audience: 8<sup>th</sup> grade students

Presentation on “Females in science” and “Impact on alcohol on the teenage brain”  
Audience: Middle school and high school students

Community School for Apprenticeship Learning, Baton Rouge, LA. 2005.

Presentation on “Teenage alcohol abuse.” Jesuit High School & Cabrini High School. New Orleans, LA. Annual, 2005-Pres. Audience: High school students

Presentation on “Alcohol intoxication” St. Margaret Mary Middle School. Slidell, LA. 2005  
Audience: 7<sup>th</sup> grade students (24)

Presentation on “Alcohol and teenage brain development” Jesuit High School Town Hall Meeting. New Orleans, LA. 2005. Audience: Parents of incoming 8<sup>th</sup> grade students

Alcohol and Drug Abuse Prevention Workshop. Roosevelt High School, New Orleans, LA. 2006.

Discussion of my research on alcohol intoxication and hemorrhage; exercise on animal adaptations to different environments. New Orleans Recovery School District/LSUHSC Science Partnership. Banneker Elementary School, New Orleans, LA. 2007.

Host, Benjamin Franklin High School Field Trip to to LSUHSC Physiology Department. 2007.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership: Banneker Elementary School, New Orleans, LA, field trip to LSUHSC. Demonstration of effects of alcohol on blood pressure; Intoxication goggles exercise. 2008.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership: Demonstration of effects of alcohol on reflexes; Intoxication goggles exercise. Banneker Elementary School, New Orleans, LA. 2009.

Volunteer, New Orleans Recovery School District/LSUHSC Science Partnership: Discussion of my research on alcohol intoxication & hemorrhage; nutrition & food groups. Banneker Elementary School, New Orleans, LA. 2009.

Chapelle High School Career Day. 2010.

Presentation “Girls and boys can be scientists.” Lake Castle Private School. Madisonville, LA. October 14, 2013. Audience: 3<sup>rd</sup>-6<sup>th</sup> grade students



Presentation "How alcohol intoxication can affect how the body responds to injury." John Curtis Christian High School. River Ridge, LA. April 23, 2015. Audience: High school students

Speaker, Speaking of Science (SoS) - Program sponsored by the National Science Foundation and Louisiana Board of Regents that brings researchers in the STEM disciplines to classrooms for presentations to groups of K-16 students, educators, parents, and other local audiences

Physiology Understanding (PhUn) Week - Nationwide outreach program supported by the American Physiological Society that builds connections between scientists and local schools and brings science into classroom of K-12 students. Annual.

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

PhUn Week 2009. What is Physiology? Blood Pressure/Heart Rate. Lake Castle Private School. Madisonville, LA.

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

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

Parent Alcohol Education Seminar on "Keeping your kids safe at Mardi Gras." Lusher High School. New Orleans, LA. New Orleans, LA. February 1, 2016. Audience: Parents of high school students.

#### ***Radio interviews:***

"Alcoholismo" KGLA/Radio Tropical. Council on Alcohol & Drug Abuse (CADA), Gretna, LA.

"Alcoholismo" KGLA/Radio Tropical. WLTV4. "Addiction And Obesity." January 24, 2009.

News stories on the impact of marijuana use on glucose, insulin, and insulin resistance (WWL 870 AM, 105.3 FM, and WWL.com). 2013.

WWL First News with Tommy Tucker (WWL 870 AM, 105.3 FM). Drinking and driving/comments on the National Transportation Safety Board's recommendation to lower the alcohol limit for driving. May 16, 2013.

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

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

#### ***Television interviews:***

WWLTV News. What can happen if too much alcohol is consumed. September 16, 2017. <<http://www.wwltv.com/mobile/article/news/what-can-happen-if-too-much-alcohol-is-consumed/289-475388708>>