

**KENNETH S. RAMOS, MD, PHD**  
*Highlights of Career Accomplishments*

**Scientific**

- International recognition in the fields of applied genetics and genomic medicine, precision medicine, environmental health sciences and toxicology
- Elected Member of the National Academy of Medicine
- Associate of the National Academy of Sciences
- Senior scientist responsible for leading diverse research teams conducting independent and collaborative fundamental and translational research in the fields of biochemistry, bioinformatics, cardiology, cell biology, chemistry, computational biology, developmental biology, environmental health, epigenetics, experimental therapeutics, genomics, in vitro biology, molecular biology, molecular medicine, nephrology, neurobiology, nutrition, oncology, pathology, pharmacology, physiology, public health, pulmonology, teratology, theoretical biology and toxicology
- Lead author in 500+ peer-reviewed scientific publications and proceedings appearing in high profile general and specialty journals
- Solicited expert consultant for federal, state and international governments
- Career funding in excess of \$90 million dollars in direct costs awarded to support investigator initiated, as well as multi-investigator projects including, R01, P01, T32, P30, U01 and U03 type grants
- Seminal contributions that pioneered three major areas of scientific study including environmental cardiology, genomics and precision medicine and molecular toxicology
- Numerous awards in recognition of scientific excellence including the Chester J. Reed Endowed Chair in Molecular Toxicology, Distinguished Scholar in Biochemistry and Molecular Biology, Achievement Award for Scientific Excellence in Toxicological Sciences, Astra Zeneca European Traveling Lectureship, Leading Physician of the World in Molecular Medicine and Distinguished Scientist
- Senior leadership in scientific and strategic research planning at the local, regional, national and international levels in the areas of biochemistry and molecular biology, bioinformatics and computational biology, genetics and genomics, environmental health sciences, medicine and public health and toxicology
- Experience leading competitive, peer review scientific panels and expert committees
- Executive experience organizing and hosting scientific meetings and developing and delivering a broad range of communication materials for the web, professional societies, general public, US Department of Human Health Services, reporters and the media
- Program director of over 50 scientific consortia, symposia, and workshops in the areas of cardiology, cellular signaling, computational biology, genomics, nephrology, oxidative stress, public health, oncology, medicine, pathology, risk assessment, and toxicology
- Extensive coordination and interface with multiple federal, state and local health agencies, local advocates and stakeholders, and the media
- President of the Society of Toxicology, the largest organization of professional toxicologists in the world with a combined membership of 8,000+ members
- President, American Heart Association Texas Affiliate, the largest affiliate within the American Heart Association at the time, the premier organization in the United States advancing science and policies to build healthier lives free of cardiovascular disease and stroke
- Member, 50+ science advisory boards, and 50+ scientific and medical editorial boards
- Over 400 professional scientific presentations for national and international audiences
- Chair of Gordon Research Conference in Molecular Mechanisms of Toxicity
- Directed and supervised the research activities of 44 Ph.D. students, 24 MD/DVM students and 50+ undergraduate/high school students
- Founding editor, National Institute of Environmental Health Sciences EHP: Toxicogenomics
- Keynote speaker at 35+ international scientific meetings

- Founding Member and Executive Committee, Sanford Children's Genomic Medicine Consortium
- Flinn Foundation Arizona Bioscience Roadmap Steering Committee

### **Administrative**

- Progressive administrative leadership experience in various settings including academia, federal government, not-for profit organizations and private organizations
- Strategic and visionary leader with strong financial acumen and history of building successful partnerships with government and the private sector
- Oversight of academic, scientific, budgetary, and operational activities of a large health care delivery system, a partnership between the University of Arizona Health Sciences and Banner Health.
- Oversight of three academic departments in schools of medicine and public health: Environmental and Occupational Health Sciences, School of Public Rural Health at Texas A&M University (20+ faculty and staff personnel) and Biochemistry and Molecular Biology, School of Medicine at the University of Louisville (100+ faculty and staff), and a University-wide faculty (100+ faculty and staff).
- Oversight of strategic plan and finances of two major scientific societies: Society of Toxicology with greater than 8,000 members and American Heart Association Texas Affiliate.
- Senior leadership for large and small transdisciplinary teams of scientists, physicians, and public health professionals within the academic, federal and private sector settings
  - Conceptualization, procurement, administrative and fiscal oversight of three independently funded P30 Center of Excellence awards from the National Institutes of Health
- Experience developing, managing, evaluating, and reporting on programmatic and budgetary issues for large, multi-faceted basic and applied academic research programs
- Chief administrative and scientific officer of four independent Centers of Excellence in Environmental and Rural Health (80+ members), Genetics and Molecular Medicine (200+ members), Environmental Genomics and Integrative Biology (80+ members) and Applied Genetics and Genomic Medicine (50+ members)
- Chairman of the Scientific Advisory Boards for Intrepid Bioinformatics and Kentucky Clinical Trials Laboratory
- Executive experience leading programmatic efforts in the areas of genetics and molecular medicine
- Advancement and unwavering commitment to local, regional and national initiatives that promote recruitment, retention and advancement of minorities in science and medicine
- Senior leadership experience directing critical strategic and operational elements of a major Academic Health Sciences Learning Center with a focus on genomic and personalized medicine and workforce development in the health sciences
- Chief Academic Officer of a 1800 faculty member school of medicine with 320+ medical students
- Member, University of Arizona Presidential Cabinet
- Member, Academic Management Council, the governing board of the University of Arizona – Banner Health charged with administrative and fiduciary oversight of a 1 billion+ dollar enterprise and the faculty practice plan.

### **Medicine and Public Health**

- Chair, National Academy of Sciences Committee on Emerging Issues
- Leadership in developing, evaluating and guiding community outreach, education and engagement programs at the state and regional levels
- Internationally recognized leader in the area of community health worker education and training
- Experience organizing and hosting community forums involving media personalities, public health leadership, community-based organizations, and community residents
- Organized and hosted several continuing education and continuing medical education programs for health care providers (dentists, nurses, physicians and social workers)

- Completed first ever community health assessments of Hispanic residents in Cameron Park, Texas and Shelbyville, Kentucky
- Experience establishing research collaborations and partnerships between the community and the academia
- Four-time Member, National Academy of Sciences Committee on Health Effects in Vietnam Veterans of Exposure to Herbicides
- Member, Woodrow Wilson International Center for Scholars on Emerging Nanotechnologies
- Member, National Toxicology Program Strategic Vision Committee
- Invited Participant, U.S. Interagency Coordinating Committee on Toxicogenomics in Japan
- Member, Kentucky Diabetes Research Board
- Advisor to the National Institute of Environmental Health Sciences, the National Cancer Institute, the US Environmental Protection Agency, Centers for Disease Control and Food and Drug Administration.
- Member of the House Concurrent Resolution 44, State of Texas
- Board of Scientific Counselors, Centers for Disease Control and the National Center for Environmental Health
- Member and Chair, Board of Scientific Counselors Chemical Assessment Advisory Committee, Environmental Protection Agency
- Member, Human Subjects Review Board of the United States Environmental Protection Agency
- FOBESII US-Mexico Bilateral Forum on Higher Education, Innovation and Research
- Director, MD-PhD Program, University of Arizona College of Medicine
- Chair, National Academy of Sciences Committee on Health Effects in Vietnam Veterans of Exposure to Herbicides, Tenth Update
- Member, Scientific Advisory Board, National Toxicology Program
- Witness and Institute of Medicine Representative, Senate Veterans Committee Hearing on the Impact of Exposure to Toxic Chemicals on Veterans and the Veterans Administration Response
- Elected Member, National Academy of Medicine
- Member, Academic Management Council Research Committee, University of Arizona Health Sciences–Banner University Medical Center
- Co-leader, University of Arizona Health Sciences Team to National Precision Medicine Initiative
- Institute of Medicine Representative, Veterans Administration Hearing on Veterans and Agent Orange: Update 2014 and debriefing of respective House of Representatives and Senate Veterans Committees
- Co-Chair, Academic Management Council Education Committee of the University of Arizona Health Sciences – Banner University Medical Center
- Member, Greater Phoenix Economic Council, Healthcare Leadership Council
- Member, Council of Deans of the American Association of Medical Colleges
- Member, Academic Management Council, University of Arizona Health Sciences – Banner Health

### **Advocacy and Public Communications**

- Extensive experience in communicating across varied audiences using written and oral formats
- Numerous scientific presentations and national and international TV dialogues and discussions, as well as radio and other massive media interviews
- Numerous peer-reviewed editorials, meeting reports, and workshop summaries on topical public health issues published in highly regarded journals
- Service as member of professional, scientific, and community-based panels, advisory committees, and trans-Agency workgroups in diverse areas of science and medicine
- Organized several public and town hall meetings, field investigations, and outreach activities in the areas of medicine and public health
- Collaboration with the American Medical Writers Association and appearance in several public service announcements in the areas of medicine and public health
- Member, Public Interfaces in the Life Sciences Roundtable of the National Academy of Sciences

- Invited guest, Dr. Oz's Show on Genetically Modified Crops and Introduction of Enlist Duo
- Expert Witness, Senate Congressional Committee on Veterans Affairs
- Statement on glyphosate carcinogenicity for the European Food Safety Authority
- Invited guest, Public Forum on the Health Effects of Agent Orange in Vietnam Veterans and their Children
- University of Texas Chancellor's Council

## Kenneth S. Ramos, MD, PhD

### PERSONAL DATA

Homes: 1002 Poplar Pointe Way  
Goshen, Kentucky 40026  
Tel: (502) 290-5377  
Mobile: (502) 930-7151

9830 N. La Reserve Drive  
Oro Valley, Arizona 85737  
Tel: (520) 612-7199  
Mobile: (502) 930-7151

Work: Roy P. Drachman Hall  
1295 North Martin Avenue  
P.O. Box 210202  
Tucson, AZ 85721-0202  
Tel: (520) 626-8334  
FAX: (520) 626-1460  
E-mail: ksramos@email.arizona.edu

Department of Medicine  
Division of Pulmonology, Allergy, Critical Care and Sleep Medicine  
College of Medicine – Tucson  
University of Arizona Health Sciences  
Tucson, Arizona 85721

Department of Medicine  
Division of Clinical Support and Analytics  
College of Medicine – Phoenix  
University of Arizona Health Sciences  
Phoenix, Arizona 85004

Department of Medical Toxicology  
Section of Precision and Genomic Medicine  
Banner University Medical Center – Phoenix  
Phoenix, Arizona 85004

Birthplace:	Ely, Nevada
Citizenship:	U.S.A.
Marital Status:	Married to Irma N. Ramos, M.D. 1 daughter, Kristie Nicole (1992) 1 son, Kenneth Alexander (1994)

### EDUCATION AND TRAINING

1973 - 1978	Bachelor of Science in Pharmaceutical Sciences and Chemistry (with highest honors), University of Puerto Rico – Medical Sciences Campus
1979 - 1983	Doctor of Philosophy in Biochemical Pharmacology, The University of Texas at Austin. Major Advisors: Daniel Acosta, Ph.D. and Alan B. Combs, Ph.D.

1983 - 1984	Postdoctoral Fellowship in Physiology and Pharmacology, University of Nevada School of Medicine. Major Advisor: David P. Westfall, Ph.D.
1992	Sabbatical Visit, Laboratory of Molecular Biology and Genetics, Texas A&M University Department of Biochemistry and Biophysics. Sponsor: David O. Peterson, Ph.D.
2007 - 2011	Doctor of Medicine, University of Louisville Health Sciences Center
2011 - 2012	Internal Medicine, University of Louisville Affiliated Hospitals
2012 - 2014	Pulmonary Medicine, University of Louisville Physicians. Attending Physicians: Rodney M. Folz, M.D., Ph.D., Director of Chronic Disease Management Programs and Rodrigo Cavallazzi, M.D., Director of the Medicine Critical Care Unit.

## APPOINTMENTS

### Academic

1984 - 1987	Assistant Professor of Pharmacology, University of the Sciences in Philadelphia
1985 - 1987	Adjunct Associate Professor of Environmental Studies, Drexel University
1987 - 1989	Assistant Professor of Pharmacology, Texas Tech University School of Medicine
1989 - 1995	Associate Professor of Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University
1990 - 1995	Associate Professor of Medical Physiology, Texas A&M University College of Medicine and Cardiovascular Research Institute
1990 - 1993	Coordinator, Cellular and Molecular Biology and Toxicology, Texas A&M University
1994 - 2003	Faculty of Toxicology Executive Committee; Chair (1994-1996); Vice-Chair (1996-2002)
1995 - 2003	Professor of Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University
1995 - 2003	Professor of Medical Physiology, Texas A&M University College of Medicine
1997 - 2003	Deputy Director, Environmental Health Sciences Training Program, Texas A&M University
1997 - 1999	Deputy Director, National Institute of Environmental Health Sciences Center of Excellence, Texas A&M University
1997 - 1999	Director, Molecular and Cellular Biology and Toxicology Research Core, National Institute of Environmental Health Sciences Center, Texas A&M University
1998 - 1999	Professor and Interim Head, Department of Environmental and Occupational Health, Texas A&M University School of Rural Public Health
1999 - 2003	Director, National Institute of Environmental Health Sciences Center of Excellence, Texas A&M University
1999 - 2003	Member, Executive Committee, College of Veterinary Medicine
2002 - 2003	Chester J. Reed Chair in Molecular Toxicology
2003 - 2007	Distinguished Scholar, Professor and Chairman, Department of Biochemistry and Molecular Biology, University of Louisville Health Sciences Center
2003 - 2014	Distinguished Scholar and Professor, Department of Biochemistry and Molecular Biology, University of Louisville Health Sciences Center
2003 - 2011	Director, Center for Genetics and Molecular Medicine, University of Louisville
2007 - 2012	Director, National Institute of Environmental Health Sciences Center for Environmental Genomics and Integrative Biology
2013 - 2014	Senior Advisor to the Associate Vice-President for Health Sciences – Research and Associate Vice-President for Clinical Affairs and Translational Research
2014-	Professor (Gratis Faculty), Department of Biochemistry and Molecular Genetics,

	University of Louisville Health Sciences Center
2014 -	Associate Vice-President for Precision Health Sciences, University of Arizona Health Sciences Center
2014 -	Professor of Medicine, Division of Pulmonary, Allergy, Critical Care and Sleep Medicine, University of Arizona College of Medicine - Tucson
2014 -	Director, MD/PhD Program, University of Arizona Health Sciences Center
2014 -	Director, Center for Applied Genetics and Genomic Medicine, University of Arizona Health Sciences Center
2015	Visiting Professor, Universidad Autónoma de Yucatan, Merida, Yucatan, Mexico
2015 - 2016	Visiting Professor, Taylor's University, Malaysia
2016 - 2017	Interim Dean, College of Medicine – Phoenix
2017 -	Professor of Medicine, Department of Medical Toxicology and Precision Medicine, University of Arizona College of Medicine – Phoenix and Banner University Medical Center – Phoenix
2017 -	Professor of Medicine, Division of Clinical Decision Support and Analytics, University of Arizona College of Medicine – Phoenix and Banner University Medical Center – Phoenix
2017 -	Associate Vice-President for Research, Discovery and Innovation, University of Arizona

#### Non-Academic

1996 – 1998	Chair, Environmental Health Sciences Review Committee, National Institute of Environmental Health Sciences
2001 – 2004	Chair (2002-2004); Vice-Chair (2001-2002), Gordon Research Conference on Mechanisms of Toxicity
2001 – 2003	President Elect, American Heart Association-Texas Affiliate
2001 – 2007	Board of Scientific Counselors, National Institute of Environmental Health Sciences
2002 – 2006	Founding Editor, <i>Environmental Health Perspectives: Toxicogenomics</i>
2004 – 2007	Chair, National Academy of Sciences Committee on Emerging Issues
2006 – 2010	Board of Directors, Society of Toxicology. Vice-President Elect (2006-2007), Vice President (2007-2008), President (2008-2009), Past-President (2009-2010)
2007 – 2011	Member, National Institute of Environmental Health Sciences Advisory Council
2008	Associate, National Research Council of the National Academy of Sciences
2008 – 2014	Chairman, Scientific Advisory Board, Intrepid Bioinformatics
2011 – 2012	House Officer, Department of Medicine, Division of General Internal Medicine, University of Louisville
2011 –	Chief Scientific Advisor, Clinical Trials Laboratory, University of Louisville
2011 –	Chair, Scientific Advisory Board, Kentucky Clinical Trials Laboratory, Louisville, KY
2012 –	Member, Board of Scientific Counselors, Environmental Protection Agency Chemical Assessment Advisory Committee
2013 – 2015	Member, Board of Scientific Counselors, Centers for Disease Control, National Center for Environmental Health
2013 – 2016	Member, Human Subjects Review Board, Environmental Protection Agency
2013 –	Member, Public Interfaces of the Life Sciences Roundtable, National Academy of Sciences
2013	Invited Participant, World Trade Center Health Program Advisory Committee, National Academy of Sciences
2013 –	Member, Human Variome Project
2014 –	International Scientist and Mentor, Inter-institutional Program for Strengthening Research and Post-Graduate Work in the Pacific Coast of Mexico
2014 – 2016	Chair, National Academy of Sciences Committee on Health Effects of Agent

	Orange
2015 –	Member, University of Arizona President’s Cabinet
2015 –	Executive Committee, Sanford Children’s Genomic Medicine Consortium
2015 –	Member of the Board, Watching Over Mothers and Babies Foundation
2015 –	Member, Research Committees of the Academic Management Council of the University of Arizona Health Sciences and Banner University Medical Centers in Tucson and Phoenix
2016 – 2017	Co-Chair, Education Committee of the Academic Management Council of the University of Arizona Health Sciences and Banner University Medical Centers in Tucson and Phoenix
2016 –	Member of the Board (Secretary), Puerto Rico Consortium for Clinical Investigation
2016 – 2017	Member, Compensation Committee, Banner University Medical Center - Phoenix
2016 –	Member, Healthcare Innovation Council of the Greater Phoenix Economic Council
2016 – 2017	Member, Council of Deans, American Association Medical Colleges
2016 –	Flinn Foundation Arizona Bioscience Roadmap Steering Committee
2016 – 2017	Member, Academic Management Council, University of Arizona Health Sciences – Banner Health
2016 – 2017	Member, Innovations Committee, Banner University Medical Division
2017	Co-Chair, Research and Innovations Committee, Banner-University Medical Division
2017	Co-Chair, Faculty Practice Plan, Banner-University Medical Center Division

## **OTHER ACADEMIC AFFILIATIONS**

2014 –	University of Arizona Cancer Center University of Arizona Respiratory Center (now Asthma and Allergy Respiratory Center) Southwest Environmental Health Center Bio5 Institute
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## **HONORS, AWARDS and SPECIAL RECOGNITIONS**

1978	Magna Cum Laude, University of Puerto Rico
1978	Mortar and Pestle Award for Student Excellence, University of Puerto Rico
1981	Rho Chi Honor Society
1981	Graduate Student Research Fellowship Award, The University of Texas at Austin
1982	Graduate Student Award, The University of Texas at Austin
1982	Predoctoral Fellowship and Dissertation Award, The University of Texas at Austin
1982	Phi Kappa Phi
1983	Honorable Mention, Hoffmann-La Roche Graduate Student Award for Meritorious Research, Society of Toxicology
1991	Who's Who Among Hispanic Americans
1991	2,000 Notable American Men
1991	Who's Who in Science and Engineering
1992	USPHS Research Career Development Award, National Institute of Environmental Health Sciences
1993	Who's Who in Science and Engineering
1993	2,000 Notable American Men
1995	Who's Who in the World
1995	Plenary Speaker, Annual Meeting of the Mexican Association for Human Genetics
1995	National Academy of Sciences, Institute of Medicine, II Review Committee on Health Effects in



- Vietnam Veterans of Exposure to Herbicides
- 1996 Diplomat, American Board of Forensic Examiners
- 1996 Achievement Award in Research, Society of Toxicology
- 1997 National Academy of Sciences, Institute of Medicine, III Review Committee on Health Effects In Vietnam Veterans of Exposure to Herbicides
- 1997 Keynote Speaker, Summer Research Fellowship Program, University of Massachusetts Medical Center
- 1997 Keynote Speaker, 2<sup>nd</sup> Congress on Toxicology, Mexico City
1999. National Academy of Sciences, Institute of Medicine, Committee to Review Evidence Regarding Link Between Exposure to Agent Orange and Diabetes
2000. Zeneca, Ltd. European Traveling Lectureship Award
- 2001 Plenary Speaker, 50<sup>th</sup> Annual Meeting of the Pharmaceutical Society of Korea
- 2002 Chester J. Reed Chair in Molecular Toxicology
- 2002 Meritorious Service Award, American Heart Association-Brazos Valley Division
- 2002 Keynote Speaker, Annual Meeting of the Argentina Toxicology Association
- 2002 National Academy of Sciences, National Research Council Committee on Emerging Issues (Chairman 2004 - 2008)
- 2003 Meritorious Service Recognition, American Heart Association-Texas Affiliate
- 2003 Distinguished University Scholar, University of Louisville
- 2004 Chair, Gordon Research Conference on Mechanisms of Toxicity
- 2006 Fellow, Academy of Toxicological Sciences (Recertified 2011, 2016)
- 2007 Member, National Environmental Health Sciences Advisory Council
- 2008 Keynote Speaker, 39<sup>th</sup> Environmental Mutagen Society Meeting
- 2008 Associate, National Research Council of the National Academy of Sciences**
- 2008 Kentucky Diabetes Network Recognition for Distinguished Service
- 2010 Keynote Speaker, Gulf Coast Chapter Society of Toxicology
- 2010 Keynote Speaker, Frontiers of Cancer Research Symposium, Medical College in Georgia
- 2011 Who's Who in America
- 2011 Louisville's "Hot Dozen" Companies, Louisville Enterprise Corporation
- 2011 Honors Recognition in Anatomy, Ambulatory Internal Medicine, Anesthesiology, Clinical Neuroscience, Oncology, Pulmonology, Radiology and Urology
- 2012 Who's Who in America
- 2012 James G. Wilson Publication Award Finalist for "Epigenetic control of embryonic renal cell differentiation by L1 retrotransposon", The Teratology Society
- 2013 Plenary Speaker, 9<sup>th</sup> Congress of Toxicology, Mexico
- 2013 Keynote Speaker, Gordon Research Conference Cellular and Molecular Mechanisms of Toxicity
- 2013 Presidential Recognition for creative work resulting in a U.S. patent application and option by the Kentucky Clinical Trials Laboratory on the discovery and quantification of LINE-1 ORF1p
- 2013 Leading Physician of the World in Molecular Medicine, International Association of Internists
- 2014 Worldwide Who's Who
- 2014 Chair, National Academy of Sciences, Institute of Medicine Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides- Tenth Biennial Update
- 2015 30<sup>th</sup> Annual Samuel Kuna Distinguished Lectureship at Rutgers University
- 2015 Latino Who's Who
- 2015 Elected Member of the National Academy of Medicine**
- 2015 Keynote Speaker, Malaysian Pharmaceutical Society
- 2015 Keynote Speaker, Arrowhead 7th Annual Personalized and Precision Medicine Conference
- 2015 Keynote Speaker, Latin American Association of Mutagenesis, Carcinogenesis and Teratogenesis
- 2015 Keynote Speaker, Dunedin University, New Zealand
- 2016 Hispanic Organization of Toxicologists Distinguished Scientist Award
- 2016 Keynote Speaker, Clinica Alemana and Universidad de Desarrollo, Santiago, Chile
- 2016 Keynote Speaker, Precision Medicine Initiative Cohort Program, Community Partners Workshop

2017 Keynote Speaker, Arizona Biomedical Research Commission Annual Meeting  
 2017 Keynote Speaker, Banner University Medical Center Neurology Symposium  
 2017 National Institutes of Health Director's WALs Lecture  
 2017 Keynote Speaker, Society of Clinical Research Associates  
 2017 Arizona Business Leaders Award Recognition  
 2017 Keynote Speaker, Arizona Biomedical Research Commission Annual Meeting  
 2017 Keynote Speaker, Gordon Research Conference on Molecular Mechanisms of Toxicity  
 2017 Keynote Speaker, Arizona Society of Respiratory Care/American Association for Respiratory Care

## **AREAS OF SCIENTIFIC AND MEDICAL EXPERTISE**

Epigenetics

Genomics and Precision Medicine

Gene-Environment Interactions

Molecular Biology and Genetics

Toxicology

## **INVITED LECTURES (International Presentations Shown in Bold)**

### **1985**

Smith Kline & French Laboratories. "Role of calcium as a mediator of alterations in cardiac and smooth muscle function".

### **1986**

Medical College of Pennsylvania. "Cell culture systems as models of chemically-induced cardiovascular toxicity".

Mid-Atlantic Society of Toxicology. "Metabolic activation and cytotoxicity of allylamine in vascular tissue".

### **1987**

Society of Toxicology. "Perspectives on *in vitro* models to evaluate cardiovascular toxicity".

Medical College of Pennsylvania. "Development and characterization of a vascular endothelial cell culture system: A physiological approach".

Pharmacon Research International. "Development, characterization and validation of a vascular endothelial cell culture system as a model to evaluate chemical toxicity".

### **1988**

West Texas Pharmaceutical Association. "Impact of the environment on human health".

Holland Laboratory American Red Cross. "Allylamine-induced vascular toxicity: Implications in atherogenesis".

**1989**

American Society for Pharmacology and Experimental Therapeutics. “*In vitro* techniques to study cardiovascular toxicity of drugs”.

**1991**

Gulf Coast Society of Toxicology. “Cellular and molecular responses of the rodent and avian aorta to toxic insult: Implications in atherogenesis”.

**1992**

Federation American Societies Experimental Biology in Copper Mountain. “Mechanisms of growth control in vascular smooth muscle cells”.

University of Texas Medical Center at Houston. “Modulation of protooncogene expression in rat aortic smooth muscle cells by benzo[a]pyrene”.

Texas A&M University Health Science Center 2<sup>nd</sup> Annual Graduate Student Research Symposium. “Cellular and molecular mechanisms of growth regulation in vascular smooth muscle cells”.

**1993**

Texas A&M University. “*In Vitro* alternatives in toxicity testing”.

University of Texas Medical Center in Houston. “Cellular proliferation, phenotypic modulation and gene expression as targets of toxic insult”.

Texas A&M University. “Mitogenic signal transduction and oncogene expression in vascular smooth muscle cells as targets of toxic insult”.

**1994**

University of Texas at Austin. “Molecular basis of carcinogen-induced atherogenesis; Interference with mitogenic signal transduction”.

Schering-Plough Research Institute. “Molecular basis of carcinogen-induced atherogenesis: Interference with mitogenic signal transduction”.

University of Texas Medical Branch. “Deregulation of mitogenic signal transduction in vascular smooth muscle cells by benzo(a)pyrene”.

Texas A&M University. “Molecular controls of growth and differentiation”.

Wayne State University. “Molecular controls of vascular smooth muscle cell growth and differentiation: Deregulation by environmental chemicals”.

National Heart, Lung and Blood Institute. “Hormonal modulation of coronary smooth muscle”.

**1995**

University of Texas Medical Center. “Cell proliferation, phenotypic modulation and gene expression as targets of toxic insult”.

**Asociacion Mexicana de Genetica Humana. Keynote Speech: “Genetics, environment and atherosclerosis”.**

**Asociacion Mexicana de Genetica Humana. “Role of c-Ha-ras in atherogenesis”.**

University of Cincinnati Medical Center. “Molecular basis of carcinogen-induced atherogenesis”.

## 1996

Society of Toxicology. “Altered ras function and regulation by environmental chemicals: Implications in atherogenesis and carcinogenesis”.

University of Texas Health Science Center in San Antonio. “Molecular basis of carcinogen-induced atherogenesis”.

Schering-Plough Research Institute. “Toxicological effects of xenobiotics in vascular tissues: A focus on molecular mechanisms of cell injury”.

University of Florida. “Role of normal and activated ras genes in chemical atherogenesis”.

University of New Mexico. “Epigenetic basis of benzo(a)pyrene-induced atherogenesis”; “Deregulation of c-Ha-ras transcription”;

University of New Mexico. “Transcriptional regulation by oxidative response elements”.

University of Texas Medical Branch. “Mesenchymal-to-epithelial transition in renal mesangial cells by benzo(a)pyrene: Implications in renal carcinogenesis”.

## 1997

University of Texas Medical Center in Houston. “Toxicant-induced alterations in gene expression”.

Texas Southern University. “Transcriptional activation of the c-Ha-ras gene by benzo(a)pyrene: Role of xenobiotic-inducible trans-acting factors”.

Michigan Society of Toxicology. “Activation of redox signaling and c-Ha-ras transcription by benzo(a)pyrene: Implications in Atherogenesis”.

University of Massachusetts Medical Center. Keynote Speech “Ras gene Activation by Benzo(a)pyrene”.

**2nd Congress on Toxicology in Mexico City. Keynote Speech “Mesenchymal-to-epithelial transition in renal mesangial cells by benzo(a)pyrene: Implications in renal carcinogenesis”.**

Washington State University. “Activation of redox signaling and c-Ha-ras transcription by benzo(a)pyrene”.

University of Texas M.D. Anderson Cancer Center. “Recapitulation of developmental programs in renal mesangial cells by benzo[a]pyrene”.

Emory University. “Epigenetic basis of carcinogen-induced atherogenesis”.

Baylor College of Dentistry. "Deregulation of osteopontin expression in chemical atherogenesis".

## 1998

University of Connecticut. "Altered regulation of the Ha-ras proto-oncogene in chemical atherogenesis".

University of Cincinnati Symposium on Gene-Environment Interactions in Human Health. "Redox regulation of c-Ha-ras and GST-Ya genes in vascular cells by environmental chemicals: Implications for human atherosclerotic disease".

Workshop on Cell Signaling Processes Underlying Toxicological Responses, Raleigh-Durham, N.C. "Toxicities mediated through changes in gene expression".

Texas Tech University Health Sciences Center. "Redox regulation of gene expression in chemical atherogenesis".

Pfizer Pharmaceuticals. "Novel transcription factors in the regulation of gene expression".

## 1999.

Vanderbilt University. "Promoter-specific patterns of gene regulation via the electrophile response element".

Society of Toxicology. "Cell and promoter-specific patterns of gene regulation via the electrophile response element".

Baylor College of Medicine. "Genetic and epigenetic basis of carcinogen-induced atherogenesis".  
University of Nebraska Medical Center. "Promoter-specific gene regulation via the electrophile response element".

University of Texas MD Anderson Cancer Center. "Molecular mechanisms of chemical atherogenesis and carcinogenesis: Role of EpRE elements".

Marshall University School of Medicine. "Oxidative mechanisms in the regulation of xenobiotic-inducible genes in vascular and renal cells".

University of Kansas Medical Center. "Molecular mechanisms of environmental atherogenesis".

University of Texas Medical Branch. "Mammalian gene regulation via the antioxidant/electrophile response element".

Bush School of Government and Public Service, Texas A&M University. "Science of dangerous materials: Integrated emergency weapons of mass destruction response".

University of Medicine and Dentistry of New Jersey. "Regulation of mammalian gene expression via the antioxidant/electrophile response element".

University of Michigan. "Oxidant regulation of gene expression".

**XVII Congreso Nacional de Investigacion Biomedica, Universidad Autónoma de Nuevo León. "Regulation of mammalian gene expression via the antioxidant response element".**

University of Arizona. "Regulation of mammalian gene expression via the antioxidant response element: Implications in atherogenesis and carcinogenesis".

**2000.**

University of Louisiana at Monroe. "Transcription factor interactions in the regulation of GST-Ya by electrophilic chemicals".

**Mechanisms of Nephrotoxicity and Nephrocarcinogenicity International Conference. "The glomerulus as a target of hydrocarbon injury".**

Marshall University School of Medicine. "Phenotypic expression profiles in glomerular cells following repeated cycles of oxidative injury".

National Institute of Environmental Health Sciences Leadership Retreat. "Genetic and epigenetic basics of chemical atherogenesis".

**INSERM, Montpellier, France. "A CCAAT/Enhancer binding protein site within Antioxidant Response element mediates negative regulation of GST-Ya in vascular smooth muscle cells".**

**Karolinska Institute, Stockholm, Sweden "A CCAAT/Enhancer binding protein site within Antioxidant Response element mediates negative regulation of GST-Ya in vascular smooth muscle cells".**

**Institute of Genetics, Karlsruhe, Germany. "A CCAAT/Enhancer binding protein site within Antioxidant Response element mediates negative regulation of GST-Ya in vascular smooth muscle cells".**

**University of Dundee, Dundee, Scotland. "A CCAAT/Enhancer binding protein site within Antioxidant Response element mediates negative regulation of GSTA1 in vascular smooth muscle cells".**

**Astra-Zeneca, Manchester England. "A CCAAT/Enhancer binding protein site within Antioxidant Response element mediates negative regulation of GST-Ya in vascular smooth muscle cells".**

University of Texas Medical Branch. "Insights into molecular mechanisms of benzo(a)pyrene-induced vascular injury".

National Institute of Environmental Health Sciences. "Latin flavor in American science: A perspective into molecular vascular and renal biology".

University of Texas at Austin. "Co-regulators of GST-A1 transcription in mammalian cells".

University of New Mexico. "Overview of the Texas A&M Program in Environmental Health Sciences".

**2001**

University of Texas Health Science Center Dental Branch. "Co-regulators of redox-regulated transcription".

Society of Toxicology. "Co-regulators of redox-regulated transcription by the antioxidant/electrophile response element in vascular smooth muscle cells".

**IUTOX Meeting at the Universidad de Carabobo, Valencia, Venezuela. "Molecular biology of the toxic response".**

**50<sup>th</sup> Annual Meeting Pharmaceutical Society of Korea, Seoul, Korea. Keynote Speech "Molecular insights into redox regulated transcription: Implications for human health and disease".**

National Institute of Environmental Health Sciences. "Molecular basis of chemical atherogenesis".

## 2002

Medical University of South Carolina. "Molecular insights into redox-regulated transcription".

University of Texas Medical Center in Houston. "Novel co-regulators of redox regulated transcription".

National Institute of Environmental Health Sciences. "Ahr signaling, Wilms' Tumor Suppressor Gene and Nephrogenesis"

Penn State University Health Science Center. "Gene-environment interactions in atherogenesis".

**3<sup>rd</sup> International Conference on Osteopontin and Related Proteins. "Oxidative injury activates osteopontin signaling and induces matrix-dependent changes in NF-kB activity in vascular smooth muscle cells".**

University of Louisville. "Molecular biology of oxidative stress: *L1Md-A2* as a target of redox regulated transcription".

Aventis Pharmaceuticals. "Ahr, WT1 and Nephrogenesis".

Hollings Cancer Center, Medical University of South Carolina, "Molecular biology of oxidative stress: *L1Md-A2* as a target of redox regulated transcription".

National Workshop on the Role of Environmental Agents in Cardiovascular Disease. "Molecular Insights into Redox-Regulated Transcription: Implications in Atherogenesis.

**Argentina Toxicology Association, Buenos Aires, Argentina. Keynote Speech "Molecular biology of the toxic response: Implications in risk assessment.**

University of Cincinnati. "A thirty-year molecular perspective of carcinogen-induced atherosclerosis: A tribute to Dr. Roy Albert".

Ohio Valley Society of Toxicology. "Novel co-regulators of redox regulated transcription.

Johns Hopkins University. "Molecular insights into redox-regulated transcription".

## 2003

Health Effects Institute. "Vascular inflammation: A molecular perspective".

Society of Toxicology. "Application of clustering methodologies to the analysis of biological outcomes".

Continuing Medical and Nursing Education Program in Hidalgo County. "Safe drinking water".

National Institute of Environmental Health Sciences. "Metabolic profiling: Applications to risk assessment".

National Academy of Sciences. "Toxicogenomics in risk assessment".

## 2004

Association Medical and Graduate Departments of Biochemistry. "Gene-environment interactions: Redox regulated transcription in atherogenesis".

IMD3 Symposium on Strategies and Molecular Targets for Drug Design. "Redox-regulated transcription: Pathogenetic implications and molecular targets".

University of Kentucky. "Inference of biological regulatory networks".

University of Louisville. Health Sciences Center Institute and Center Retreat. "An overview of the Center for Genetics and Molecular Medicine research programs"

University of Louisville Environmental Cardiology. "Redox-regulated transcription by Nrf2"

Molecular Targets Program, J.G. Brown Cancer Center "Gene-gene interactions: Lessons from genomics and bioinformatics".

**Joint Specialty International Symposium on "An Integration of Mechanistic Investigation and Morphological Evaluation" in Lindau, Germany.**

**Ross Medical School. 22<sup>nd</sup> Annual Research Day. Keynote Speech. "Novel genetic targets in atherosclerosis", Dominica**

**Toxicogenomics International Forum 2004 in Kyoto, Japan. Keynote Speech "Redox-regulated gene networks in vascular cells".**

**Japanese Office of Education and Development: Special Workshop on Toxicogenomics. "Functional genomics, transcription factor interactions and nephrogenesis".**

9<sup>th</sup> RCM International Symposium on Health Disparities. "Functional genomics, transcription factor interactions and nephrogenesis".

## 2005

**International Society for the Study of Xenobiotics. "A systems biology approach to elucidate mechanisms of renal developmental interference by Ah receptor ligands".**

Ohio Valley Affiliates for Life Sciences, "Functional Genomics During Nephrogenesis".

Society of Toxicology. "An 'omics' approach to elucidate mechanisms of disrupted



nephrogenesis: Functional interactions between AHR and WT1”.

Teratology Society. “Inference of biological regulatory networks during normal and abnormal development”.

Federation American Societies Experimental Biology. Inference of Biological Regulatory Networks in Atherogenesis,

West Louisville, Emerging Environmental Issues Affecting Women and Children’s Health: What Health Care Professionals Should Know.

Cornell University, “Transcriptional control in atherogenesis”.

**Collegium Ramazzini's 3<sup>rd</sup> International Conference in Italy "Framing the Future in Light of the Past: Living in a Chemical World". “Transcriptional profiling and functional genomics reveals a role for Ahr transcription factor in nephrogenesis.”**

**9<sup>th</sup> International Conference on Environmental Mutagens: Toxicogenomics, Keynote Speech. “A genomics approach to understand underlying biology and pathogenetic mechanisms of environmental injury”.**

Mountain West Society of Toxicology. “Redox-regulated gene networks in atherogenesis”.

## 2006

Medical University of South Carolina, “Transcriptional control of LINE-1 retrotransposons in mammalian cells: Implications in atherosclerosis and cancer”.

Duke University Medical Center, CIIT Centers for Health Research, National Institute of Environmental Health Sciences, North Carolina State University, Sepracor, Inc., Environmental Protection Agency and University of North Carolina at Chapel Hill, “LINE-1 retrotransposons as epigenetic regulators of environmental disease”.

University of Louisville, “Research partnerships in environmental genomics and integrative biology at the University of Louisville”.

University of Louisville, “Endocrine disruption and nephrogenesis: Molecular insights into developmental programming of the kidney”.

University of California Berkeley, “LINE-1 retrotransposons as epigenetic regulators of environmental disease.

University of Louisville, “Regulation of Wilms’ tumor suppressor gene by aryl hydrocarbon receptor: Implications in nephrogenesis and hydrocarbon nephropathy”.

Environmental Mutagen Society, “From genomics to mechanistic insight: A growing presence in medicine and regulatory decision making”.

Vanderbilt University, “LINE-1 as a regulator of genomic integrity and environmental disease susceptibility”.

North Carolina Society of Toxicology, “Intersection of genetic and epigenetic mechanisms in

chemical atherogenesis”.

University of Louisville, “Gene-environment interactions: Implications in Public Health”.

University of Louisville, “Global environmental health: Impact of climate change on health”.

## 2007

Gordon Research Conference on Toxicogenomics, “Computational and biological inference of LINE-1 regulatory networks”.

University of Arizona, “Computational and biological inference of LINE-1 regulatory networks”.

University of Louisville Environmental Cardiology, “Center for environmental genomics and integrative biology”.

Bioinformatics Summit, UT-ORNL-KBRIN, “Mathematical models of cellular systems.

University of Louisville School of Public Health and Information Sciences, “Gene-environment interactions.

**1<sup>st</sup> International Conference of Toxicogenomics Integrated with Environmental Sciences, Keynote Speech. “Unraveling genetic regulatory networks of mammalian retroelements”.**

## 2008

University of New Mexico. “Regulation of mammalian retroelements”.

University of Louisville. Global environmental health: Impact of climate change on health”.

American Association for the Advancement of Science. “Understanding the linkages between toxicity and human disease”.

Mississippi State University. “Disruption of vascular cell differentiation programs by environmental injury: Molecular targets of genetic interference”.

University of Cincinnati. “Computational and biological inference of L1 regulatory networks”.

Pacific Northwest National Laboratories. “Epigenetic control of L1 retrotransposon: implications in the regulation of normal and disease phenotypes”.

Keynote Speech, 39<sup>th</sup> Annual Environmental Mutagen Society Meeting. “Unraveling genetic regulatory networks of mammalian retroelements.

Centro Latino in Shelbyville, KY. “Sexually-transmitted diseases”.

American Medical Writers Association Conference. “Fetal basis of adult onset disease”.

## 2009

Society of Toxicology. “Mechanisms of epigenetic regulation of L1 elements in human and murine cells”.

National Academy of Sciences. “Environmental diseases: evaluation at the molecular level”.

Louisiana State University. “Epigenetic control of mammalian retroelements”.

Teratology Society Annual Meeting, Modeling toxicity pathways using integrative genomics and systems biology: Focus on nephrogenesis.

## 2010

Society of Toxicology. “Perspectives on the evolution of cardiovascular toxicology”.

Mid-West DNA Repair Meeting. “Reactivation of mobile genetic elements by DNA damaging agents”.

University of Louisville, Division of Pulmonology and Critical Care Grand Round. “Stress-regulated activation of mammalian retroelements”.

Gulf Coast Society of Toxicology. “Fetal basis of adult onset renal disease: Crosstalk between AHR and WT-1 during nephrogenesis”.

National Institute of Environmental Health Sciences Core Centers Meeting. “Overview of the Center for Environmental Genomics and Integrative Biology”.

Nia Center Community Forum on Social and Environmental Determinants of Health. “Overview of the Center for Environmental Genomics and Integrative Biology”.

Medical College of Georgia. “On the intersection of genetics and epigenetics in human cancer”.

University of Louisville. “Introduction to workshop on path from biomarker discovery to commercialization”.

## 2011

Society of Toxicology. “Retroelements and microRNAs in the regulation of cellular differentiation, proliferation and toxicity”.

Association of Clinical Scientists. “Environmental genomics of L1 retrotransposon: Implications for personalized medicine”.

University of Louisville. “Gross and microscopic hematuria”

Society of Environmental Toxicology and Chemistry. “Genetic and epigenetic mechanisms of environmental Injury by benzo(a)pyrene and related polycyclic aromatic hydrocarbons”.

Annual Biomedical Research Conference for Minority Students. “A tale of LINEs: Epigenetic reactivation of L1 retrotransposon by DNA damaging agents.

University of Kentucky. “LINE-1 reactivation by genotoxic insult: Implications for human disease.

Healthy Start Community Forum at the Nia Center. “Health perspectives on infant mortality: Medical and environmental considerations”.

## 2012

Society of Toxicology. “Environmental exposures and disease prevalence among Hispanics along the Texas-Mexico border”.

University of Louisville. “Randomized controlled trial comparing Ruxolitinib to best available therapy for myelofibrosis”.

University of Louisville. “A journey of discovery: From molecules to medicine and back”.

National Academy of Sciences. “A story of LINES: The intersection of genetics and epigenetics in reprogramming the mammalian genome by environmental injury”.

National Academy of Sciences. Closing remarks for meeting on “Exploring Human Genomic Plasticity and Environmental Stressors: Emerging Evidence on Telomeres, Copy Number Variation and Transposons”.

Eastern Illinois University. “Genome plasticity: A story on LINES and genetic reprogramming”.

Amgen. “Regulation of genome plasticity by repetitive elements: Biomedical and clinical implications”.

## 2013

US Environmental Protection Agency. “LINE-1 regulates plasticity of the human genome: Relevance for cancer pathogenesis and human oncology”.

**9<sup>th</sup> Congress of Toxicology, Mexico. Keynote Speech. “Genome plasticity in a few LINES: Implications for human oncology.”**

Kentucky Public Health Association, National Public Health Week – Public Health is You! Professional Panel.

**Astra Zeneca Safety Science Showcase. Manchester, England. “Reprogramming of the HegG2 genome by LINE-1”.**

**West China Hospital and Regenerative Medicine Research Center of Sichuan University. “Regulation of human genome plasticity by LINE-1 retroelement: Implications in health and disease”.**

**West China Hospital and Regenerative Medicine Research Center of Sichuan University. “Translational medicine in the USA: A personalized genomics approach”.**

Cellular and Molecular Mechanisms of Toxicity Gordon Conference. Keynote Speech “Reorganization of the genome by toxic injury: A story of LINES”.

University of Puerto Rico at Humacao. “Reprogramming of the human genome by L1: Implications for the medical management of chronic disease and cancer”.

Society for the Advancement of Chicanos and Native Americans. “DNA damaging agents reactivate Long Interspersed Nuclear Element-1: Molecular mechanisms and implications in human oncology”.

University of Louisville. “Regulation of human genome plasticity by LINE-1 retroelement: Implications in health and disease”.

University of Louisville. “Gene-environment interactions”.

National Academy of Sciences. “Welcoming and Opening Remarks: Workshop on Sustainable Infrastructures for Life Science Communication”.

University of Kentucky. “Regulation of genome plasticity and oncogenic phenotypes by LINE-1”.

## 2014

Texas A&M University Health Sciences Center. “Epigenetic control of mammalian LINE-1 retroelements”.

National Institutes of Health. 7<sup>th</sup> Annual National Institutes of Health Career Symposium. “Innovations in Health Care Research”.

Mountain West Society of Toxicology Annual Meeting. “Reactivation of LINE-1 retrolements by environmental injury”.

University of Arizona Women’s Health Research Conference. “Precision healthcare for women of the 21<sup>st</sup> century”.

University of Arizona College of Medicine – Phoenix. Mini-Med School. “Evolution of genomics: Shift in health care toward personalized medicine”.

Dr. Oz. Human health safety considerations concerning use of genetically modified crops in combination with new herbicide formulations for the management of superweeds.

University of Arizona – Genetics Grand Rounds. Molecular genetics of LINE-1 retrotransposition.

Institute of Biosciences and Technology, Texas A&M University Health Sciences Center. “Paradigm shifts in healthcare toward precision medicine”.

Learn about Valley Fever Conference. “Precision Health: A bold initiative at the Arizona Health Sciences Center”.

Sarver Heart Center. “Precision Health: A bold initiative at the Arizona Health Sciences Center”.

Arizona State University Center for Science and the Imagination. “Science Fiction TV Dinner Series: House MD”.

BioIndustry Organization of Southern Arizona (BIOSA). “Personalized medicine: A path toward precision healthcare”

University of Arizona Comprehensive Cancer Center. “Molecular genetics of LINE-1 retrotransposition: Implications for human oncology”

University of Arizona College of Medicine – Phoenix. Mini-Med School. Panel Discussion on “Ethics in personalized medicine”

**2015**

**Universidad Autónoma de Yucatan. “Epigenetics and toxicology in public health”.**

30<sup>th</sup> Annual Samuel Kuna Lecture, Rutgers University Environmental and Occupational Health Sciences Institute. “Genome-wide reprogramming by toxic injury: A journey of discovery from molecules to precision medicine”.

Society of Toxicology. Eminent Toxicologist Recorded Series. “Reprogramming of the human genome by toxic injury”.

Society of Toxicology, Undergraduate Program Keynote Speech. “From toxic molecules to precision medicine: A journey of discovery and opportunity”.

University of Arizona College of Pharmacy. “Precision medicine in the discovery, development and design of new medicines”.

**Malaysian Pharmaceutical Society. “Individualized therapy: How far are we?”.**

Arizona Health Sciences Center. “Overview of potential precision health initiatives at Banner-University Medical Center”.

Arrowhead 7th Annual Personalized and Precision Medicine Conference. “Precision Healthcare Platforms at the Arizona Health Sciences Center”.

Ventana Medical Systems. “Exploiting the plasticity of the genome in personalized pulmonary medicine”.

Obstetrics and Gynecology Grand Rounds. “Precision healthcare for women of the 21<sup>st</sup> century”.

University of Cincinnati STEMs with Latin Roots. “On the intersection between genetics, environmental health and precision medicine: A story of LINEs”.

Arizona Program to Increase Diversity Among Individuals Engaged in Health-Related Research. “Genetics and epigenetics of human health and disease”.

University of Arizona College of Medicine - Intersessions 2. “Paradigm shifts in healthcare toward precision medicine”.

**Latin American Association of Mutagenesis, Carcinogenesis and Teratogenesis and Argentinian Toxicology Association. “Insights into the adaptive and evolutionary functions of LINE-1 retroelement in the human genome”.**

**University of Buenos Aires Program in Medical Molecular Biology. “Insights into the adaptive and evolutionary functions of LINE-1 retroelement in the human genome”.**

**Dunedin University, New Zealand. “Novel findings in genomic and personalized medicine:**

**Polymorphic variants of LINE-1 retrotransposon differentially regulate cell differentiation, malignant transformation and disease following toxic injury”.**

University of New Mexico. “Exploiting the plasticity of the genome in precision pulmonary medicine: A story of LINES”.

**2016**

Puerto Rico IDeA Network Biomedical Research Excellence, Ponce Health Sciences University, “On the intersection of molecular genetics, toxicology and precision medicine: A story of LINES”.

Puerto Rico IDeA Network Biomedical Research Excellence, University of Puerto Rico Medical Sciences Campus, “On the intersection of molecular genetics, toxicology and precision medicine: A story of LINES”.

GTCbio’s Precision Medicine Conference, “The future of translational and clinical genomics in precision medicine”.

University of Cincinnati Latino Scholars Program, “On the intersection between genes, environment and precision medicine: A story of LINES”.

**Clinica Alemana and the Universidad de Desarrollo in Santiago de Chile, Pharmacogenomics: a cornerstone in precision medicine.**

**Clinica Alemana and the Universidad de Desarrollo in Santiago de Chile, Transforming healthcare delivery through a precision medicine platform.**

University of Arizona Undergraduate Biology Program, “The career path of a physician-scientist: A story of LINES.

Society of Toxicology, Undergraduate Program Keynote Speech. “From toxic molecules to precision medicine: A journey of discovery and opportunity”.

Texas A&M University Institute for Women and Underrepresented Minority Faculty, Postdocs and Graduate Students. “To know the road ahead, ask those who traveled before you: A modified Chinese proverb mixed with LINES”.

University of Arizona BLAISER Program, “Genome plasticity in health and disease”.

National Heart, Lung and Blood Institute, “A clinical encounter in the COPD clinic: Strategies toward precision medicine”.

**International Congress of Toxicology in Merida, Mexico, “Innovations in environmental epigenetics: Tales from endocrine disruption to cancer”.**

Precision Medicine Initiative Cohort Program: Community Partners Workshop, “Fundamentals of Precision Medicine, Understanding genes, environment and lifestyle: Scientific opportunities for communities”.

College of Medicine – Tucson Homecoming and 50<sup>th</sup> Anniversary Alumni Reunion, “Innovative

Medicine: New approaches to old challenges – 2016 updates in precision medicine”.

Mini-Med School at the College of Medicine – Phoenix, The Precision Medicine Initiative: What is in it for me?

## 2017

National Institutes of Health Director's WALs Lecture (Wednesday Afternoon Lecture Series), “Repetitive DNA Sequences in Health and Disease: Gift Wrappings for Precision Medicine”.

Banner University Medical Centers of Phoenix, “Precision medicine: Shifting emphasis from sick care to health care”.

Banner University Medical Centers of Tucson, “Precision medicine: Shifting emphasis from sick care to health care”.

Feeding Your Genome Annual Conference, “At the nexus of nutrition and precision medicine”.

Native American Research and Training Center, Annual Report to the Tribes Milagritos: Small Miracles in Health, Science and Education, University of Arizona Health Sciences, “Precision medicine: Shifting emphasis from sick care to health care”.

Banner University Medical Center Neurology Symposium, “Precision medicine: Current and future”.

Academic Medicine Career Development Regional Conference for Diverse Medical Students and Residents: Building the Next Generation of Academic Physicians, “Research and Scholarship”.

Arizona Biomedical Research Commission, “Repetitive sequences of the human genome: Roles in health and disease”.

Gordon Research Conference on Cellular and Molecular Mechanisms of Toxicity, “Toxicogenomics in the Era of Precision Medicine”.

Society of Clinical Research Associates 11<sup>th</sup> Annual Device Research and Regulatory Conference, “On the intersection of genomics, technology and health care”.

Southern Arizona Leadership Council, “Perspectives on the University of Arizona College of Medicine-Phoenix”.

Banner-University Medicine Division, Medical Staff Leadership Retreat, “Perspectives on the University of Arizona College of Medicine-Phoenix”.

Arizona Society Respiratory Care, “Pulmonary Health Care in the Era of Genomics and Precision Medicine”.

**Universidad Autonoma de Mexico, Instituto de Investigaciones Biomedicas, International Symposium on the Health Impact of Air Pollution “Epigenetic impact of polycyclic aromatic hydrocarbons”.**

University of Arizona BLAISER Program. “Repetitive DNA Sequences in Health and Disease:



Gift Wrappings for Precision Medicine”.

American College of Physicians – Arizona Chapter Annual Meeting. “Precision Medicine: Turning Sick Care into Health Care.

MD Anderson Cancer Center, Distinguished Lecture Series in Experimental Therapeutics, “LINE-1 Retrotransposon Couples EMT Programming with Non-Small Cell Lung Cancers”.

Banner Health Chief Medical Officer’s Retreat, “Precision Medicine: Advances in Diagnostics, Prevention and Treatment that Improve Quality of Health Care”

## 2018

Banner University Medical Center – Phoenix Medical Staff Retreat, “Shifting Paradigms in Healthcare: Role of Precision Medicine”.

American Association of Health Care Journalists, “Precision Medicine”.

University of Texas at Austin, “Shifting Paradigms in Healthcare: Bench to Bedside Translation in Molecular Medicine”.

Society for Experimental Biology and Medicine, “Precision Prevention”

**International Society for Experimental Biology and Medicine, “Precision Medicine”**

## SYMPOSIA / MEETINGS ORGANIZED

- 1987 *In Vitro* Models of Cell Injury. Philadelphia Physiological Society, Thomas Jefferson University, Philadelphia, Pennsylvania.
- 1992 New Techniques in Toxicology. Annual Regional Meeting of the Gulf Coast Society of Toxicology, Texas A&M University, College Station, Texas.
- 1992 Risk Assessment: Facts or Myths. Annual Meeting of the Gulf Coast Society of Toxicology, Texas A&M University, College Station, Texas.
- 1996 De-regulation of ras Signaling by Toxic Chemicals. Annual Meeting of the Society of Toxicology, Anaheim, California.
- 1998 Regulation of Gene Expression via the Electrophile Response Element. Annual Meeting of the Society of Toxicology, New Orleans, Louisiana.
- 1998. 7<sup>th</sup> International Congress on the Mechanisms of Nephrotoxicity and Nephrocarcinogenicity
- 2001 Oxidant Stress Mechanisms in Pathological and Toxic Responses. Annual Meeting of the Society of Toxicology, San Francisco, California.
- 2001 Redox-Regulated Transcription. Gordon Research Conference on Mechanisms of Toxicity, Bates College, Maine.
- 2002 Role of Environmental Agents in Cardiovascular Disease. A Workshop sponsored by the National Institute of Environmental Health Sciences, National Heart Lung and Blood Institute, and the Environmental Protection Agency.
- 2003 A Closer Look at Drinking Water: What Health Care Professionals in the Lower Rio Grande Valley Should Know. Texas Department of Health/Center for Environmental and Rural Health/Center for Housing and Urban Development Sponsored Continuing Medical Education Course
- 2003 Beyond Genomics: Image Analysis and Computational Biology. Annual Meeting of the Society

- of Toxicology, Salt Lake City, Utah.
- 2004 An Integration of Mechanistic Investigation and Morphological Evaluation, 8<sup>th</sup> International Congress on Mechanisms of Nephrotoxicity and Nephrocarcinogenicity.
- 2004 Emerging Molecular and Computational Approaches for Cross-Species Extrapolations: Developing Computational Models and Statistical Approaches to Link Responses Among Species.
- 2004 Carcinogen Risk Extrapolation, National Academy of Sciences.
- 2005 Inference of Biological Regulatory Networks, Federation American Societies Experimental Biology.
- 2005 Genomics and Proteomics, International Society for the Study of Xenobiotics.
- 2005 Public Databases: Sharing of Toxicogenomic Data. National Academy of Sciences.
- 2005 Validation of Toxicogenomics Technologies. National Academy of Sciences.
- 2005 Genotype-to-Phenotype Correlations in Health and Disease: Applications of Toxicogenomics. National Academy of Sciences.
- 2006 Intellectual Property Concerns in Toxicogenomics. National Academy of Sciences.
- 2006 Environmental Toxicity and Human Disease: From Mechanistic Insight to Therapeutics. Society of Toxicology.
- 2006 Complex Human Diseases: Expanding the Gene-Environment Paradigm, National Institute of Environmental Health Sciences.
- 2007 Computational Models in Molecular Biology. Center for Genetics and Molecular Medicine.
- 2007 Use of Toxicogenomics to Understand Toxic Effects and Improve Risk Assessment: A Workshop of the National Academy of Sciences.
- 2007 Advancing Toxicogenomics and Environmental Genomics through Bioinformatics, Bioinformatics Summit.
- 2008 Understanding the linkages between toxicity and human disease. American Association for the Advancement of Science.
- 2008 Understanding the linkage between toxicity and human disease. American Medical Writers Association Conference.
- 2010 National Institute of Environmental Health Sciences Core Centers Meeting.
- 2013 Continuing Medical Education Program, Society of Toxicology.
- 2013 Sustainable Infrastructure for Life Sciences Communication, National Academy of Sciences.
- 2014 Environmental Liver Disease Symposium, University of Louisville Health Sciences Center.
- 2014 Continuing Medical Education Program, Society of Toxicology.
- 2015 Continuing Medical Education Program, Society of Toxicology.
- 2015 Contemporary Concepts of Toxicology: Toxicogenomics: The Interface Between the Environment and Human Health
- 2015 Environmental Epigenetics: Tales from Endocrine Disruption to Cancer
- 2016 GTCBio's Precision Medicine Conference
- 2017 Computational models to discover function and/or clinical utility from noncoding DNA, 2018 Pacific Symposium on Biocomputing Conference
- 2018 Precision Prevention and Precision Medicine, International Society for Experimental Biology and Medicine, Chengdu, China
- 2018 Precision Medicine, Molecular Mechanisms of Toxicity Gordon Conference

## **SOCIETY MEMBERSHIPS**

Society of Toxicology  
 American Association for the Advancement of Science  
 American Society for Pharmacology and Experimental Therapeutics  
 American College of Forensic Examiners

North American Vascular Biology Organization  
 American Society for Biochemistry and Molecular Biology  
 American Medical Association  
 International Association of Internists  
 American Thoracic Society  
 American Society for Human Genetics  
 Arizona Medical Association  
 Pima Country Medical Society

#### **GRANTS APPROVED (Total Direct Costs Only)**

1985	\$6,000. Seed Research Grant, Philadelphia College of Pharmacy and Science. "Role of Metabolic Activation in Cardiovascular Toxicity". Principal Investigator.
1986	\$6,000. Seed Research Grant, Philadelphia College of Pharmacy and Science. "Vascular Cytotoxicity of Acrolein". Principal Investigator.
1987 - 1988	\$8,000. Stuffer Predoctoral Fellowship. "Allylamine-Induced Phenotypic Modulation of Aortic Smooth Muscle Cells". Sponsor for Lydia R. Cox.
1987 - 1989	\$11,963. Seed Research Grant, Texas Tech University Health Sciences Center. " <i>In Vivo - In Vitro</i> Correlates of Vascular Toxicity". Principal Investigator.
1988 - 1995	\$321,491. National Institute of Environmental Health Sciences. " <i>In Vivo - In Vitro</i> Correlates of Vascular Toxicity". Principal Investigator.
1989 - 1991	\$86,000. Seed Research Grant, Texas Agricultural Experiment Station. "Cellular and Molecular Toxicology". Principal Investigator.
1989	\$80,000. Instrumentation Grant, Visage Image Analyzer, Research Enhancement Program, College of Veterinary Medicine, Texas A&M University. Co-Investigator.
1989	\$1,720,820. Research Development Funds, Texas A&M University. Principal Investigator.
1991	\$17,600. Instrumentation Grant, Hybridization and Polymerase Chain Reaction, Texas Agricultural Experiment Station. Principal Investigator.
1991 - 1992	\$15,475. Small Instrumentation Grant, Flexercell System, Research Enhancement Program, College of Medicine and the Health Science Center at Texas A&M University and the National Institutes of Health - Heart, Lung, and Blood Institute. Co-Investigator.
1991	\$40,000. Instrumentation Grant, Fluorescence microscope, Research Enhancement Program, College of Veterinary Medicine, Texas A&M University. Co-Investigator.
1992 - 1997	\$504,231. National Institute of Environmental Health Sciences. "Toxicology of Environmental Contaminants", Co-Investigator and Seminar Coordinator for Training Grant in Toxicology; Dr. Stephen H. Safe served as Principal Investigator.

1992 - 1995	\$5,819,891. National Institute of Environmental Health Sciences. "Procedures to Assess the Hazard of a Superfund Site: In Vitro Models for Risk Assessment". Principal Investigator for one of five individual projects in this program project grant; Dr. Stephen H. Safe served as Project Director.
1992 - 1997	\$320,000. National Institute of Environmental Health Sciences. "Vascular Toxicity of Selected Environmental Contaminants". Principal Investigator.
1993 - 1995	\$155,650. Texas Agricultural Experiment Station. "Diet Modulation of Human Atherogenic Potential". Principal Investigator.
1994 - 1995	\$25,000. Texas A&M University, Interdisciplinary Research Initiatives Program. "Studies in Cellular Differentiation: Biomechanistic Investigations". Co-Principal Investigator with Dr. Daniel Romo.
1994 - 1998	\$542,656. National Heart, Lung and Blood Institute. "Sex Hormone-Induced Modulation of Coronary Smooth Muscle". Co-Principal Investigator.
1995 - 1996	\$44,312. National Institute of Environmental Health Sciences. "Procedures to Assess the Hazard of a Superfund Site: In Vitro Models for Risk Assessment". Principal Investigator for one of five individual projects in this program project grant; Dr. Stephen H. Safe served as Project Director.
1996 - 2000	\$1,000,000. National Institute of Environmental Health Sciences. "Molecular Mechanisms of Vascular Toxicity". Principal Investigator.
1996 - 1997	\$20,000. Research Enhancement Program - College of Veterinary Medicine. "Role of Environmental Chemicals in Renal Carcinogenesis". Principal Investigator.
1996 - 1999	\$89,700. National Institute of Environmental Health Sciences. Awarded to Dr. Chris M. Bral. Toxicant-induced deregulation of c-Ha-ras expression. Sponsor for F32 ES 05728.
1997 - 2000	\$117,882. National Institute of Environmental Health Sciences. Supplemental Funding to Molecular Mechanisms of Vascular Toxicity to support Dr. Lance Hallberg. Sponsor.
1997 - 2002	\$758,592. National Institute of Environmental Health Sciences. "Toxicology of Environmental Contaminants". Deputy Director. Dr. Stephen H. Safe served as Principal Investigator.
1997 - 2002	\$424,460. Agency for Toxic Substances and Disease Registry. "Optimization of Risk Assessment Procedures for Complex Mixtures". Co-Investigator. Dr. K. C. Donnelly served as Principal Investigator.
1998 - 2002	\$5,000,000. National Institute of Environmental Health Sciences. "Center for Environmental and Rural Health". Deputy Director. Dr. Stephen Safe served as Principal Investigator from 1998 - 1999. Dr. Ramos served as Principal Investigator from 2000-2002.

- 1998 - 1999      \$25,000. Texas A&M University, Interdisciplinary Research Initiatives Program. "Mechanisms of Environmental Atherogenesis". Co-Investigator. Dr. Emily Wilson serves as Principal Investigator.
2003.      \$1,000,000. National Heart Lung and Blood Institute. "Hypertension and Arterial Injury: A Role for Integrins". Co-Principal Investigator.
- 2000 - 2004      \$1,000,000. National Heart Lung and Blood Institute. "Osteopontin and Oxidative Stress in Atherogenesis". Principal Investigator.
- 2000 - 2005      \$5,819,891. National Institute of Environmental Health Sciences. "Stress Gene Induction". Principal Investigator for one of six projects in the Superfund Basic Sciences Program Project directed by Dr. Stephen H. Safe.
- 2001 – 2006      \$1,000,000. National Institute of Environmental Health Sciences. "Molecular Mechanisms of Chemical Atherogenesis". Principal Investigator.
- 2002      \$17,000. National Institute of Environmental Health Sciences. 2002 Mechanisms of Toxicity Gordon Research Conference. Co-Principal Investigator. Dr. Ron Hines served as Principal Investigator.
- 2002 - 2007      \$758,592. National Institute of Environmental Health Sciences. "Toxicology of Environmental Contaminants". Deputy Director 2002 - 2003. Dr. Stephen H. Safe serves as Principal Investigator.
- 2002 - 2007      \$5,000,000. National Institute of Environmental Health Sciences. "Center for Environmental and Rural Health". Principal Investigator 2002 - 2003. This grant was transferred to Texas A&M University in March 2003.
- 2002      \$50,000. National Heart, Lung and Blood Institute. "Osteopontin and Oxidative Stress: A Genomic Perspective". Principal Investigator.
- 2002-2004      \$140,000. National Institute of Environmental Health Sciences. "Environmental Stress and the Vascular Cell Transcriptome". Sponsor for Dr. Charles D. Johnson.
- 2003-2005      \$124,000. American Heart Association. "Role of cytochrome P4501A1/1B1 and DNA adducts in polycyclic aromatic hydrocarbon-mediated atherogenesis in mice". Co-Investigator. Dr. B. Moorthy served as Principal Investigator.
- 2003-2006      \$126,000. National Institute of Environmental Health Sciences. "Crosstalk between nephrogenesis and *Ahr* signaling". Sponsor for Dr. M. Hadi Falahatpisheh.
- 2004-2005      \$7,000. National Institute of Environmental Health Sciences. 2004 Mechanisms of Toxicity Gordon Research Conference. Principal Investigator.
- 2004-2005      \$10,000. National Institute of Environmental Health Sciences. 2004 Symposium on Pollutants and Heart Disease. Co-Principal Investigator. Dr. Aruni Bhatnagar served as Principal Investigator.
- 2004-2009      \$5,656,251. National Heart, Lung and Blood Institute. "Protection of Ischemic Myocardium". Co-Investigator. Dr. Roberto Bolli serves as Principal Investigator.

2004-2009	\$697,188. National Institute of Environmental Health Sciences. “UofL Environmental Health Sciences Training Program”. Co-Investigator. Dr. David W. Hein serves as Principal Investigator. Dr. Ramos serves as a member of the Internal Advisory Committee and Graduate Mentor.
2005-2008	\$675,000. Philip Morris External Research Management Group. “Osteopontin as a master switch in atherogenesis”. Principal Investigator.
2008.	\$3,188,299. National Science Foundation. “Center for Regulatory Metabolomics: From Molecules to Communities”. Co-Principal Investigator. Dr. Teresa Fan serves as Principal Investigator.
2009.	\$1,392,632. National Institutes of Health COBRE Program. “Molecular Determinants of Developmental Defects”. Co-Investigator and Sponsor for Dr. Aoy Tomita-Mitchell. Dr. Robert Greene serves as Principal Investigator.
2008.	\$60,000. National Alliance for Research on Schizophrenia and Depression. “Development of Bioinformatics Infrastructure in Support of Biomarker Discovery in Schizophrenia Studies”. Collaborator. Dr. Ted Kalbfleisch serves as Principal Investigator.
2007-2009	\$4,000. Kentucky Science and Engineering Foundation. Development of Life Sciences Data Brokerage System in Support of Life Sciences Research, Co-Investigator. Dr. Ted Kalbfleisch serves as Principal Investigator.
2007-2011	\$2,700,000. National Institute of Environmental Health Sciences. Center for Environmental Genomics and Integrative Biology. Principal Investigator.
2008	\$50,000. Kentucky Lung Cancer Research Program. “Genetic Regulation of Lung Epithelial Cell Transdifferentiation by LINE-1”. Principal Investigator.
2009-2014	\$1,145,000, National Cancer Institute. “Convergence of MicroRNA and p53 Signaling in Multiple Myeloma: Environmental Connections”. Dr. Yong Li serves as Principal Investigator.
2009-2011	\$500,000, National Institute of Environmental Health Sciences. “Role of Retroelements in Atherogenesis”. Principal Investigator.
2009-2014	\$1,992,440. National Institute of Environmental Health Sciences. “UofL Environmental Health Sciences Training Program”. Co-Investigator. Dr. David W. Hein served as Principal Investigator. Dr. Ramos served as a member of the Internal Advisory Committee and Graduate Mentor.
2010-2014	\$294,423. Astra Zeneca. “Epigenetic Regulation of the Cellular Response to Oxidative and Cellular Stress” Principal Investigator.
2011-2012	\$75,000. Kentucky Lung Cancer Research Program. “Molecular Genetics of L1 Retrotransposon”. Principal Investigator.
2014-2015	\$75,000. National Academy of Sciences. “Detection of ORF1p in Ranch Hand Veterans”. Principal Investigator

2014-2016	\$469,710. National Institutes of Health. “Training in Environmental Toxicology of Human Disease. Dr. Nathan Cherrington serves as Principal Investigator. Dr. Ramos is a mentor in this training program.
2014-2019	\$750,000. National Institutes of Health. “Convergence of MicroRNA and p53 Signaling in Multiple Myeloma. Dr. Yong Li serves as Principal Investigator. Dr. Ramos is Principal Investigator on Subcontract to the University of Arizona.
2015-2018	\$146,153. CONACYT - Mexico (Consejo Nacional de Ciencia y Tecnologia). “Health Impacts of Chronic Pesticide Exposure: Biochemical, Genetic and Epigenetic Biomarkers. Dr. Maria de Lourdes Robledo serves as Principal Investigator. Dr. Ramos is a Co-Investigator and Consultant on this international initiative.
2016-2017	\$110,000. Robert S. Flinn Medical Innovation Visiting Scholars Program. Fellowship grant to support efforts of Dr. Ray Woosley to develop clinical decision support systems for precision medicine.
2016-2021	\$35,000,000. National Institutes of Health. Precision Health Initiative Cohort Program. Drs. Lolu Ojo, Eric Reinman and Usha Menon serve as Principal Investigators. Dr. Ramos is a co- investigator. This grant supports institutional efforts to establish a cohort as part of the national precision medicine initiative.
2016-2017	\$663,948. Arizona Biomedical Research Commission Educational Initiative. Drs. Ramos and Boehmer serve as Principal Investigators.
2016-2017	\$15,000. University of Arizona Health Sciences, Pirfenidone Intervention Trial (PIT) in Chronic Obstructive Pulmonary Disease. Dr. Ramos is Principal Investigator.
2017-2018	\$74,987. University of Puerto Rico at Mayaguez, LINE-1 Analysis Software Tool. Dr. Jaime Seguel serves as Principal Investigator. Dr. Ramos is a co-investigator and primary collaborator in this initiative.

## COLLABORATIVE INTERACTIONS

1984 - 1987	I. Y. Rosenblum, Ph.D., Philadelphia College of Pharmacy and Science
1995	I. Y. Rosenblum, Ph.D., Schering-Plough
1984 - 1990	A. Welder, Ph.D., University of Oklahoma
1985 - 1988	S. K. Murphy, Ph.D., Philadelphia College of Pharmacy and Science
1987 - 1990	T. Tenner, Ph.D., Texas Tech University Health Sciences Center
1988 - 1990	J. J. McGrath, Ph.D., Texas Tech University Health Sciences Center
1988 - 1989	K. K. McMahon, Ph.D., Texas Tech University Health Sciences Center
1988 - 1990	G. Liao, Ph.D., American Red Cross
1990 - 2003	S. H. Safe, D.Sc., Texas A&M University
1990 - 2003	R. S. Chapkin, Ph.D., Texas A&M University
1992 - 1997	W. M. Chilian, Ph.D., Medical College of Wisconsin
1993 - 2005	G. A. Meininger, Ph.D., Texas A&M University
1995 - 1996	G. Helman, D.V.M., Oklahoma State University
1995 - 1996	C. Jefcoate, Ph.D., University of Wisconsin
1996 - 1997	K. Brendel, Ph.D., University of Arizona
1996 - 2003	R. Burghardt, Ph.D., Texas A&M University
1997 - 1998	A. J. Gandolfi, Ph.D., University of Arizona
1997 - 2003	K. C. Donnelly, Ph.D., Texas A&M University
1997 - 2005	E. Wilson, Ph.D., Texas A&M University Health Science Center

1997 - 2003 G. Sulikowski, Ph.D., Texas A&M University  
 1998 - 2003 B. Moorthy, Ph.D., Baylor College of Medicine  
 1998 - 2003 R. Finnell, Ph.D., Texas A&M University and University of Nebraska Medical Center  
 1999 - 2003 E. Tiffany-Castiglioni, Ph.D., Texas A&M University  
 2000 - 2003 A. Ridall, D.D.S., Ph.D., University of Texas Health Science Center in Houston  
 2001 - 2010 P. Tithof, D.V.M., Ph.D., University of Tennessee  
 2005 - Y. Li, Ph.D., University of Louisville  
 2005 D. Dean, Ph.D., University of Louisville  
 2005 - 2011 G.A. Rempala, Ph.D., University of Louisville  
 2005 - 2012 T. Fan, Ph.D., University of Louisville  
 2007 - Ted Kalbfleisch, Ph.D., University of Louisville  
 2008 - Saeed Jortani, Ph.D., University of Louisville  
 2010 - 2013 Marc Anderton, Ph.D., AstraZeneca, UK  
 2010 - 2013 Ruth Roberts, Ph.D., AstraZeneca, UK  
 2012 - Rodney J. Folz, M.D., Ph.D., University of Louisville  
 2013 - 2014 Susan Galandiuk, M.D., University of Louisville  
 2013 - 2014 Shesh Rai, Ph.D., University of Louisville  
 2013 - Rodrigo Cavallazzi, M.D., University of Louisville  
 2013 - Aruni Bhatnagar, Ph.D., University of Louisville  
 2014 - Stefano Guerra, M.D., Ph.D., University of Arizona  
 2014 - Laurence Hurley, Ph.D., University of Arizona  
 2014- Nathan Cherrington, Ph.D., University of Arizona  
 2014 - Vijay Gokhale, Ph.D., University of Arizona  
 2014 - Todd Camenisch, Ph.D., University of Arizona  
 2015 - Yves Lussier, MD, University of Arizona  
 2015 - Christina Laukaitis, M.D., Ph.D., University of Arizona  
 2015 - Mindy Fain, M.D., University of Arizona  
 2015 - Jane Mohler, M.P.H., Ph.D., University of Arizona  
 2015 - Bijan Najafi, Ph.D., University of Arizona  
 2015 - Skip Garcia, M.D., University of Arizona  
 2015 - Charles Cairns, M.D., University of Arizona  
 2015 - Ivo Abraham, Ph.D., University of Arizona  
 2015 - Maria de Lourdes Robledo, Ph.D., Universidad Autónoma de Nayarit  
 2016 - Daruka Mahadevan, M.D., University of Arizona  
 2016 - Roberto Z. Guzman, Ph.D., University of Arizona  
 2016 - Patrick Silva, Ph.D., University of Arizona  
 2016 - Nimar Aldaid, Ph.D., University of Arizona  
 2016 - Nancy Sweitzer, M.D., University of Arizona  
 2016 - Madhi Gharibeh, M.S., University of Arizona  
 2016 - Brian Erstad, Pharm. D., University of Arizona  
 2016 - Walter Klimecki, D.V.M., Ph.D., University of Arizona  
 2016 - Marti Larriva, Pharm.D., University of Arizona  
 2016 - Jason Karnes, Pharm.D., Ph.D., University of Arizona  
 2016 - Ivo Abraham, Ph.D., University of Arizona  
 2016 - Raymond R, Ph.D., University of Arizona  
 2016 - Marion Slack, Ph.D., University of Arizona  
 2016 - Achyut K. Bhattacharyya, M.D., University of Arizona  
 2016 - Lolu Ojo, M.D., University of Arizona  
 2016 - Beth Calhoun, Ph.D., University of Arizona  
 2016 - Paul Boehmer, Ph.D., University of Arizona  
 2016 - Ana, L. Abraído-Lanza, Ph.D. Columbia University  
 2016 - Larissa Avilés-Santa, M.D., National Heart, Lung and Blood Institute  
 2016 - Jonca Bull, M.D., Food and Drug Administration  
 2016 - Lindsey Enewold, Ph.D., National Cancer Institute



2016 -	Adolph Falcón, M.P.P., National Alliance for Hispanic Health
2016 -	Rafael Guerrero-Preston, Ph.D., Johns Hopkins University
2016 -	John Heintzman, M.D., M.P.H., Oregon Health Sciences University
2016 -	Eimear Kenny, Ph.D., Ichan School of Medicine at Mount Sinai
2016 -	Jean Lawrence, Sc.D., Kaiser Research Foundation
2016 -	Nangrel Lindberg, Ph.D., Kaiser Research Foundation
2016 -	Mary Ann McBurnie, Ph.D., Kaiser Research Foundation
2016 -	Ernest Moy, M.D., Human Health Services Administration
2016 -	George Papanicolaou, Ph.D., Stanford University
2016 -	Milena Petrovic, Ph.D., Miami University of Ohio
2016 -	Ileana Piña, M.D., M.P.H., Albert Einstein College of Medicine
2016 -	Jennifer Popovic, D.V.M., Harvard Medical School
2016 -	Shakira Suglia, Sc.D., Columbia University
2016 -	Miguel Vázquez, M.D., UT Southwestern Medical School
2017 -	Jaime Seguel, Ph.D., University of Puerto Rico at Mayaguez
2017 -	Usha Menon, Ph.D., University of Arizona
2017 -	Eric Reinman, M.D., Banner Health
2017	C. William Heise, M.D., Banner Health
2017	Raymond Woosley, M.D., Ph.D.
2017	Steven Curry, M.D.
2017	K. Gustin, M.D.
2017	M. Kang, M.D.
2017	Robert A. Raschke, M.D.
2017	S. Assar, M.D.
2017	S. Fountain, M.D.
2017	T. Gallo, M.D.
2017	B. Stoffer, M.D.
2017	Christian Bime, M.D.

#### **POST-BACCULAREATE STUDENTS TRAINED IN THE RAMOS LABORATORY**

1984 - 1988	Lydia R. Cox, Ph.D., D.A.B.T.: I served as chair of her dissertation committee. The title of her Ph.D. dissertation was "Allylamine-Induced Phenotypic Modulation of Aortic Smooth Muscle Cells". Dr. Cox was the recipient of the Stuffer Predoctoral Fellowship Award and won third prize in the research competition sponsored by the Mechanisms Specialty Section of the Society of Toxicology. Dr. Cox completed a postdoctoral fellowship in carcinogenesis at the Institute for Environmental Medicine at New York University Medical Center from 1988 to 1991 under the supervision of Dr. S. Garte and then joined Dupont Chemical Company as a Research Toxicologist. She was a senior research toxicologist in the biochemical division until 1999. She took an extended leave of absence before rejoining Dupont Chemicals as Senior Scientific Officer in 2011. In 2013 she was name Director of Regulatory Affairs at Nichino, a US-based agrochemical company.
1985 - 1987	Richard Rebar, M.S.: I served as co-chair with Dr. J. Stadel of Mr. Rebar's masters research committee. The title of his thesis was "Biochemical Characterization of Phosphorylated Beta Adrenergic Receptors from Desensitized Turkey Erythrocytes". Mr. Rebar served as Safety Officer at GlaxoSmithKline Pharmaceutical and now is Director of Hazardous Substance Control and Governance at Glaxo SmithKline.
1985 - 1987	Scott L. Grossman, M.S., Ph.D.: I served as chair of his master's research committee. The title of his thesis was "Characterization of the Metabolic Activation of Allylamine

to Acrolein". Mr. Grossman completed a Ph.D. in the Department of Pharmacology at Temple University School of Medicine and was employed as a Clinical Scientist for Pfizer Pharmaceuticals before joining Takeda Pharmaceuticals as an Assistant Director of Regulatory Affairs.

- 1987 - 1993 Celestine Alipui, M.B.Ch.B., M.S.: I served as co-chair with Dr. T. Tenner of her master's research committee. The title of her thesis was "Alteration of Aortic Smooth Muscle Cell Proliferation in Diabetes Mellitus". In 1989, Dr. Alipui won first prize in the graduate student colloquium sponsored by the Society for Experimental Biology and Medicine. She was a resident in Internal Medicine at University of Texas Medical Branch and is currently in private practice in the State of Michigan.
- 1990 - 1994 Xiaolan Ou, M.D., Ph.D.: I served as chair of her dissertation committee. The title of her Ph.D. dissertation was "Modulation of Vascular Smooth Muscle Cell Proliferation by Benzo(a)pyrene: Mechanistic Studies". In 1993, Ms. Ou was a recipient of the George T. Edds Award for distinguished research in toxicology at Texas A&M University. She was a postdoctoral fellow at Wayne State University in the laboratory of Dr. Greg Kalem-Kerian, Department of Internal Medicine and completed a medical residency program in Pathology at the State University of New York in Syracuse. She is now on the clinical faculty at the University of Rochester.
- 1990 -1994 Russell C. Bowes III, Ph.D.: I served as chair of his dissertation committee. The title of his dissertation was "Assessment of Cell-Specific Cytotoxic Responses of the Kidney to Aromatic Hydrocarbons: A Focus on the Deregulation of Mesangial Cell Proliferation by Benzo(a)pyrene". In 1992, Mr. Bowes was awarded first prize in the 4th Annual Research Symposium sponsored by Texas A&M/Baylor College of Medicine. He was awarded a National Institute of Environmental Health Sciences Training Grant Predoctoral Fellowship in 1992. Dr. Bowes was a post-doctoral fellow at the W. Alton Jones Cell Center in the laboratory of Dr. J. Stevens from 1994-1997. He served as an Assistant Professor of Pharmacology at Texas Tech University Health Sciences Center from 1997-1999 and then relocated to Campbell University. After a short tenure at this institution he joined Pharmanetics, a small company in the Research Triangle area.
- 1990 -1994 Thomas J. Weber, Ph.D.: I served as chair of his Ph.D. dissertation committee. The title of his dissertation was "Interference with Mitogenic Signal Transduction by Polychlorinated Dibenzo-*p*-dioxins in Vascular Smooth Muscle Cells: A Focus on Protein Phosphorylation, c-Ha-ras, and Cell Proliferation". In 1992, Mr. Weber was awarded second place for his platform presentation at the Annual Gulf Coast Society of Toxicology meeting. In 1993, Mr. Weber was awarded the McDonald's Award for Teaching Excellence by a Graduate Student. In 1994, Mr. Weber received an honorable mention at the Annual Meeting of the Society of Toxicology for his paper entitled "Regulation of protein kinase C (PKC)-related signal transduction by 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) is cell cycle-dependent". Mr. Weber was awarded the 1994 Cellular Toxicology Student Award by the Congress on Cell and Tissue Culture. In 1995, he won an honorable mention in the graduate student competition sponsored by the Molecular Biology Specialty Section for his paper entitled "The Isoform-Specific Expression of PKCs During Individual Phases of the Cell Cycle in Vascular Smooth Muscle Cells (SMCs) is Disrupted by TCDD". Dr. Weber was a postdoctoral fellow in the laboratories of Dr. T. Monks and S. Lau at the University of Texas at Austin from 1994-1997 and currently is a senior research scientist in cell biology at Pacific Northwest National Research Laboratories in Washington.

- 1990 - 1994 Devaki N. Sadhu, Ph.D.: Dr. Sadhu was a post-doctoral fellow and then a Research Associate in my laboratory during this period. He received a Ph.D. degree in Genetics (Mutagenesis) in 1981 from Osmania University, India. He was an Assistant Professor of Pediatrics and Molecular Genetics in the Center for Human Genetics at Boston University until 1999 and then relocated to Columbia University of Physicians and Surgeons to work on cancer diagnostics as a molecular cytogeneticist. In 2001, Dr. Sadhu accepted the position of study director at Toxicon in Bedford, Massachusetts and has been there since that time.
- 1992 - 1995 Martha Lundberg, Ph.D.: I served as co-chair with Dr. William M. Chilian of her Ph.D. dissertation committee. Ms. Lundberg was awarded a Graduate Student Award at the 1993 APS Conference on Signal Transduction and Gene Regulation. In 1994, Ms. Lundberg won second prize in the Annual Graduate Student Research Symposium sponsored by the Texas A&M University Health Science Center and third prize at the University-wide competition. The title of her dissertation was "Mechanical Stretch of Vascular Smooth Muscle Cells: A Novel *In Vitro* Model to Characterize Phenotypic Expression". She was a post-doctoral fellow at the National Institute of Aging. In 1995, she received a National Research Council Associate Award to study intracellular signaling controlling actin reorganization during smooth muscle migration. In 2000, she joined the Clinical and Molecular Medicine Program of the National Heart, Lung, and Blood Institute as a Senior Health Scientist Administrator.
- 1992 - 1996 Wei Zhao, Ph.D.: I served as chair of her Ph.D. dissertation committee. Ms. Zhao was awarded a competitive research award by the Graduate Student Association for her Ph.D. project entitled "Hepatotoxicity of Benzo(a)pyrene and Related Aromatic Hydrocarbons *In Vitro*: Role of Ah Receptor-Dependent and -Independent Events". The title of her dissertation was "Cytotoxicity and modulation of gene expression in rat hepatocytes by benzo(a)pyrene and related aromatic hydrocarbons." She was a post-doctoral fellow in carcinogenesis at the National Institute of Environmental Health Sciences until 2000. Currently she is a senior toxicologist at the California Environmental Protection Agency.
- 1992 - 1997 Alan R. Parrish, Ph.D.: I served as chair of his Ph.D. dissertation committee. In 1993, Mr. Parrish was awarded second place for his poster presentation at the Annual Gulf Coast Society of Toxicology meeting. In 1994, he won first prize for his platform presentation entitled "Osteopontin Gene Expression is Central to the Induction of a Proliferative/Synthetic Phenotype in Vascular Smooth Muscle Cells by Allylamine" at the Annual Gulf Coast Society of Toxicology meeting. In 1995, Mr. Parrish was awarded the Cellular Toxicology Graduate Student Award at the Congress on *In Vitro* Biology for his presentation entitled "Atypical Cytochrome P-450 Induction Profiles at the mRNA and Enzyme Level in Glomerular Mesangial Cells". In 1995, he was awarded a travel grant by the American Association for Cancer Research to attend a workshop entitled "Histopathobiology of Neoplasia". At the Fall Forum sponsored by the Graduate Student Association of the College of Veterinary Medicine, Mr. Parrish won third place for his poster presentation entitled "Contribution of an Osteopontin Fragment to the Proliferation of Vascular Smooth Muscle Cell in a Chemical Model of Atherogenesis". At the 1995 annual meeting of the Gulf Coast Society of Toxicology, he received an honorable mention for his presentation entitled "A Thrombin-Generated Fragment of Osteopontin Upregulates Mitogenic Responsiveness of Smooth Muscle Cells in a Chemical Model of Atherogenesis". He also was awarded a travel award by

the American Society of Cell Biology to attend their 1995 annual meeting. Mr. Parrish won the Carl C. Smith Student Mechanisms Award sponsored by the Mechanisms Specialty Section of the Society of Toxicology, a highly prestigious award. In 1996, Mr. Parrish was awarded third place in the poster competition at the Gulf Coast Society of Toxicology meeting. The title of his dissertation was "Differential processing of osteopontin characterizes the proliferative smooth muscle cell phenotype induced by allylamine". In 1997, Dr. Parrish was awarded the Colgate Palmolive Post-Doctoral Fellowship in *In Vitro* Toxicology. Dr. Parrish was a post-doctoral fellow in the laboratory of Dr. Jay Gandolfi at the University of Arizona. In 1999, he returned to Texas A&M University to join the faculty in the Department of Medical Pharmacology and Toxicology as an assistant professor. In 2005 he was promoted to associate professor of Integrative Systems Biology. In 2009, Dr. Parrish moved to the University of Missouri in Columbia to join the Nephrology Division as Professor of Medicine.

- 1993 - 1996      Yang-Yi Fan, M.S., Ph.D.: I served as co-chair with Dr. Robert C. Chapkin of her Ph.D. dissertation committee. In 1994, Ms. Fan was the recipient of a graduate fellowship by the American Institute of Nutrition. The title of her dissertation was "Modulation of mouse macrophage atherogenic potential by dietary gamma-linolenic acid". Dr. Fan elected to remain in College Station and assume a research associate position in our laboratories.
- 1994 - 1995      John M Bond, D.V.M., Ph.D.: Dr. Bond was a postdoctoral fellow in my laboratory and held a joint appointment in the Department of Medical Physiology with Dr. Harris J. Granger. He was instructor of Pathology in the College of Veterinary Medicine at Texas A&M University until 1998 before moving back to North Carolina to set up a private practice.
- 1994 - 1996      Yong Zhang, M.D., Ph.D.: I served as chair of his dissertation committee. Mr. Zhang was awarded a competitive research award by the Graduate Student Association for his Ph.D. dissertation project entitled "Molecular Targets of Benzo(a)pyrene in the Modulation of Vascular Smooth Muscle Cell Proliferation". His dissertation was entitled "Ras genes as molecular targets of benzo(a)pyrene in vascular smooth muscle cells: Implications in Atherogenesis". He was a postdoctoral fellow at Yale University, School of Medicine in the Department of Internal Medicine until 1998, and then an Instructor in the Department of Medicine, Division of Cardiology at Emory University until 2005 when he moved to the University of Louisville to become assistant professor of Biochemistry and Molecular Biology. He is now in private practice in Tennessee.
- 1994 - 1997      Christopher M. Bral, Ph.D.: Dr. Bral was a postdoctoral fellow in my laboratory. He completed doctoral studies in biochemistry and molecular biology in the laboratory of Dr. David O. Peterson at Texas A&M University. In 1996, Dr. Bral was awarded a National Research Award entitled "Toxicant modulation of c-Ha-ras gene expression" to continue postdoctoral work in my laboratory. In 1997, Dr. Bral joined Schering-Plough Research Institute as a senior scientist and study director.
- 1995 - 2000      J. Kevin Kerzee, Ph.D.: I served as chair of his Ph.D. dissertation committee. In 1997, Mr. Kerzee was awarded first prize for his poster presentation entitled "Redox regulation of *c-Ha-ras* gene expression by benzo[a]pyrene in vascular smooth muscle cells" at the College of Veterinary Medicine Fall Forum. That same year he received second place for his platform presentation entitled "De-regulation of *c-Ha-ras*

expression in vascular smooth muscle cells by benzo[a]pyrene and related oxidants". In 1998, Mr. Kerzee was awarded first prize by the *In Vitro* Specialty Section of the Society of Toxicology for his presentation entitled "De-regulation of *c-Ha-ras* expression in vascular smooth muscle cells by benzo[a]pyrene and related oxidants". In 1999, Mr. Kerzee was chosen as a finalist in the graduate student competition by the Mechanisms Specialty Section of the Society of Toxicology and also won the competitive Proctor and Gamble Graduate Student Fellowship Award. In 1999 Mr. Keerze was chosen as a finalist for the American Society for Investigative Pathology Highlights of Graduate student Research and the North American Vascular Biology Organization for his presentation entitled "Role of the AhR in the regulation of *c-Ha-ras* by benzo(a)pyrene, a tobacco smoke constituent". In 1999 Mr. Keerze was chosen as a winner for the American Society for Investigative Pathology Highlights of Graduate Student Research and the North American Vascular Biology Organization for his presentation entitled "Role of the AhR in the regulation of *c-Ha-ras* by benzo(a)pyrene, a tobacco smoke constituent". At the Fall meeting of the Gulf Coast Society of Toxicology he was given an honorable mention for his oral presentation entitled, "Constitutive and inducible expression of CYP1B1 in vascular smooth muscle cells". His dissertation was entitled "Benzo(a)pyrene-induced de-regulation of *c-Ha-ras* gene expression in vascular smooth muscle cells: Role of the aryl hydrocarbon receptor". He was a postdoctoral fellow in the laboratory of Dr. Alvaro Puga at the University of Cincinnati. In 2001, Dr. Kerzee was awarded a highly competitive Colgate-Palmolive fellowship to continue postdoctoral work in the area of functional genomics. He currently serves as Senior Director of the Center for Life Sciences Research at Battelle in Columbus, Ohio.

- 1995- 2001      Napoleon F. Alejandro, Ph.D.: I served as chair of his Ph.D. thesis committee. Mr. Alejandro was the winner of a five-year Minority Graduate Student Fellowship from Texas A&M University. In 1998, Mr. Alejandro was awarded honorable mention at the 4<sup>th</sup> annual poster competition and third place in the Texas A&M University Graduate Student Competition for his presentation entitled "Wt-1, Pax-2 and E-cadherin expression profiles during epithelialization of glomerular mesangial cells by benzo(a)pyrene". In 1998 and 1999 Mr. Alejandro was awarded travel awards by the College of Veterinary Medicine Graduate Student Association. In 2000 he won a travel award to present his work at the 7<sup>th</sup> Annual Congress on Nephrotoxicity and Nephrocarcinogenicity. His dissertation was entitled "Cellular and molecular fingerprinting of the glomerulus as a critical site of nephrotoxic injury by benzo(a)pyrene". That same year he won the Outstanding Graduate Student Award from the College of Veterinary Medicine. He was a postdoctoral fellow in the laboratory of Dr. Thomas Gasiewicz at the University of Rochester for three years before joining Boehringer Ingelheim Pharmaceuticals as a senior study director. He now works as Project Toxicologist II in Preclinical Safety at Alcon Pharmaceuticals in Fort Worth, TX.
- 1996 - 2000      Kim Pou Lu, Ph.D.: I served as chair of her Ph.D. dissertation committee. In 1997, Ms. Lu won first prize in the Graduate Student Forum for her presentation entitled "Genetic basis of carcinogen-induced atherogenesis". In 1998, she was the winner of the Taylor and Francis Graduate Student Award sponsored by the Food Toxicology Specialty Section at the Annual meeting of the Society of Toxicology. In 1998, she received third place in the poster competition at the Gulf Coast Society of Toxicology meeting in Galveston, Texas. In 1999, she won first prize at the annual meeting of the Society of Toxicology *In Vitro* Specialty Section. That same year she was awarded the George T.

Edds award to an outstanding student in Toxicology at Texas A&M University. The title of her dissertation was “Identification of molecular targets of benzo(a)pyrene in vascular smooth muscle cells: Implications in chemical atherogenesis”. She chose to stay in the laboratory to complete a postdoctoral fellowship. She was a senior research scientist in the Department of Biology at Texas A&M University until her untimely death in 2007.

- 1996 - 2000 Yun-Houng Chen, Ph.D.: I serve as chair of his Ph.D. dissertation committee. In 1999, Mr. Chen won a Travel Award to attend the annual meeting of the Society of Toxicology and was chosen as a finalist in the Molecular Biology Specialty Section Graduate Student competition for his paper entitled “Negative regulation of the rat GSTA1 in vascular smooth muscle cells”. In 2000, Mr. Chen was chosen as a winner for the Mechanisms Specialty Section graduate student award for his work entitled, “A CCAAT/Enhancer binding protein site along with CREB binding protein participate in negative regulation of rat GSTA1 in vascular smooth muscle cells by benzo(a)pyrene”. The title of his dissertation was “Functional interactions between aryl hydrocarbon and antioxidant/electrophile response elements: negative regulation of GST-Ya in vascular smooth muscle cells”. Currently, he is a research associate at the University of Texas M.D. Anderson Cancer Center.
- 1996 - 2002 Kim Miller, Ph.D.: I served as chair of her Ph.D. dissertation committee. In 1997, Ms. Miller received an honorable mention for her platform presentation entitled “Activation of EpRE binding protein by benzo[a]pyrene-3-6-quinone and hydrogen peroxide in vascular smooth muscle cells” at the Gulf Coast Society of Toxicology Annual Meeting. In 1998 she was awarded a travel award by the Graduate Student Association of the College of Veterinary Medicine to attend the annual meeting of the Society of Toxicology. That same year she won Best Student Presentation Award competition held at the Graduate Student Association Fall Forum of the College of Veterinary Medicine. In 1999, Ms. Miller won second place for Outstanding Manuscript in the graduate student competition sponsored by the Comparative Biology/Veterinary Specialty Section of the Society of Toxicology. That same year she was chosen as a finalist for the Texas A&M Women Network Scholarship at Texas A&M University. In 2000, she was awarded a travel award to present her work at the Gordon Research Conference on “Mechanisms of Toxicity” and was awarded Second Place for her platform presentation at the Gulf Coast Society of Toxicology Annual Meeting. The title of her dissertation was “Characterization and sequence specificity of c-Ha-ras antioxidant/electrophile response element binding proteins in vascular smooth muscle cells”. She accepted a postdoctoral position at the University of Maryland. In 2003, Dr. Miller was awarded the highly competitive Colgate-Palmolive Postdoctoral Fellowship Award. In 2006, Dr. Miller accepted a position at the Food and Drug Administration as Reviewer in the Division of Reproductive and Urologic Drugs.
- 1996 - 2000 Yang-Yi Fan, Ph.D.: Dr. Fan was a postdoctoral fellow working in collaboration with Dr. Robert Chapkin to elucidate mechanisms of  $\gamma$ -linolenic acid protection against atherosclerotic disease *in vivo*. Currently, she works as a Research Assistant Professor at Texas A&M University working in the area of molecular carcinogenesis.
- 1996 - 1998 Victoria Hastings, Ph.D.: I served as her research advisor as part of the Howard Hughes Undergraduate Training Program at Texas A&M University. She completed graduate work in plant genetics at Purdue University.

- 1997 Lance Hallberg, Ph.D.: Dr. Hallberg was a postdoctoral fellow in the laboratory working on the elucidation of DNA repair mechanisms in response to benzo(a)pyrene in vascular smooth muscle cells. He left the laboratory for personal reasons after only seven months and returned to Galveston where he was a senior research associate in the Department of Gastroenterology at the University of Texas Medical Branch. He then joined Baylor College of Medicine as Senior Research Associate and Co-Director of Research at the Advanced Technologies and Clinical Genomics Laboratory before returning to Galveston as Research Scientist in the Sealy Center for Molecular Sciences and the Department of Preventive Medicine and Community Health. In 2006, he was recruited as Assistant Professor in the same department and now serves as manager of the Environmental Exposure Facility at the Sealy Center for Environmental Health and Medicine.
- 1998 - 2003 Marc Holderman, B.S.: I served as his research advisor. In 1998, Mr. Holderman was awarded a travel award to attend the Gordon Conference on Mechanisms of Toxicity. In 2002, he was awarded a second travel award to attend the Gordon Conference on Mechanisms of Toxicity. In 2002, Mr. Holderman was awarded honorable mention by the Mechanisms Specialty Section of the Society of Toxicology for his work entitled "Expression and localization of p70 albumin precursor protein and phiAP3 in oxidatively stressed vascular smooth muscle cells". Mr. Holderman left the laboratory before completion of his graduate degree due to medical reasons.
- 1998 - 2002 Hadi Falahatpisheh, D.V.M., Ph.D.: I served as his research advisor. In 1998, Dr. Falahatpisheh was awarded a travel award by the Society of Toxicology. In 2002, he won 3<sup>rd</sup> place in the highly competitive Carl Smith Graduate Student Award competition sponsored by the Mechanisms Specialty Section of the Society of Toxicology. That same year he was awarded the George T. Edds Award for excellence in toxicology. The title of his dissertation was "Gene induction profiles in renal toxicity and nephrogenesis". He elected to remain in the laboratory to complete a postdoctoral fellowship and in 2003 was awarded a National Research Service Award for completion of postdoctoral studies in the laboratory. He was a Senior Scientist at Schering-Plough Research Institute in Lafayette, New Jersey until 2010 when he moved to Pfizer Oncology Research and Vaccines Unit as a Principal Scientist.
- 1998-2003 Spencer Williams, Ph.D.: I served as his research advisor. In 2000, his abstract was selected for oral presentation at the annual conference on Atherosclerosis, Thrombosis and Vascular Biology. In 2002, he was the winner of the highly competitive Covance Graduate Student Fellowship Award. He also won 2<sup>nd</sup> place in the graduate student competition sponsored by the In Vitro Biology Specialty Section. Mr. Williams received honorable mention for his poster presentation at the 2002 Gulf Coast Society of Toxicology meeting in College Station, Texas. Mr. Williams' dissertation research entitled "Dysregulation of NF- $\kappa$ B activity and osteopontin expression in oxidant-induced atherogenesis" was completed in May 2003. He joined the laboratory of Dr. Martin Philbert at the University of Michigan as a postdoctoral research associate before joining a consulting firm in Houston in 2005 where he served as a senior research advisor. Currently, he is an Assistant Research Professor at Baylor University in the Department of Environmental Health.
- 1999-2000 Rick Metz, Ph.D.: I served as his postdoctoral advisor until he relocated to Denver Colorado to continue his research at the AMC Cancer Center of the University of Colorado. In 2003, Dr. Metz returned to Texas A&M University to work in the laboratory

of Dr. Weston Porter as a research associate, was promoted to Research Assistant Professor until 2010, and now serves as laboratory director at the Texas A&M AgriLife Genomics and Bioinformatics Center.

- 2000-2004 Charles D. Johnson, Ph.D.: I served as his postdoctoral advisor. In 2002, Dr. Johnson was the winner of the Occupational Health Specialty Section award for Best Abstract for his presentation entitled "Global gene expression profiles in chemical atherogenesis". That same year he was the recipient of a highly competitive National Research Service Award for his grant entitled "Environmental Stress and the Vascular Cell Transcriptome" to carry out research on genomic basis of atherosclerotic vascular disease. In 2004, Dr. Johnson was director of bioinformatics for Ambion, Inc. (now Assuragen) in Austin, Texas and currently serves as director of the Institute for Genomics and Bioinformatics at Texas A&M University.
- 2001-2005 Charles Partridge, Ph.D.: I served as his Ph.D. advisor. In 2002, Mr. Partridge was awarded a travel award to attend a conference on Cardiovascular Genomics held in San Francisco. Mr. Partridge was awarded 2<sup>nd</sup> place for his poster presentation at the 2002 annual meeting of Gulf Coast Society of Toxicology. In 2003, he was awarded 2<sup>nd</sup> place for his presentation entitled "Genomic and immunofluorescence analysis of interactive gene networks in oxidant-induced atherogenesis" by the Comparative Biology Specialty Section of the Society of Toxicology. In the same year, Mr. Partridge was awarded a travel award to attend the annual meeting of the Society of Toxicological Pathology. He completed his Ph.D. work at the end of 2005 and his dissertation was entitled "Identification and Molecular Characterization of Novel Genomics Targets of Oxidant-Induced Vascular Injury". In 2005 he received a second travel award to attend the annual meeting of the Society of Toxicological Pathology. He moved to the Molecular Cardiology Division in the Department of Medicine at the University of Louisville to complete postdoctoral studies in cardiovascular biology under the joint supervision of Dr. Sumanth Prabhu and myself. He currently works at the Environmental Protection Agency in Colorado as Senior Toxicologist.
- 2001-2003 Sarah Jones, D.V.M., Ph.D.: I served as co-chair with Dr. Emily Wilson of her doctoral committee. Her dissertation research was entitled "Modulation of cyclin dependent kinase inhibitor proteins and ERK1/2 activity in allylamine-injured vascular smooth muscle cells". Currently, Dr. Jones is in private practice in Canada, her home country.
- 2002-2005 Hadi Falahatpisheh, D.V.M., Ph.D.: I served as his postdoctoral advisor. In 2002, Dr. Falahatpisheh was awarded a travel award to attend the Gordon Conference on Mechanisms of Toxicity. In 2002, Dr. Falahatpisheh was chosen as a finalist for the highly competitive Colgate-Palmolive Postdoctoral Fellowship Award. In 2003, he was awarded a competitive NRSA for his work entitled "Crosstalk between nephrogenesis and *Ahr* signaling". In 2005, Dr. Falahatpisheh was awarded a travel award by the American Society for Biochemistry and Molecular Biology. Later that year he joined a contract laboratory in Alabama as a senior scientist and in 2006 moved to Schering-Plough Research Institute as a senior scientist. He was a Senior Scientist at Schering-Plough Research Institute in Lafayette, New Jersey until 2010 when he moved to Pfizer Oncology Research and Vaccines Unit as a Principal Scientist.
- 2002- 2007 Adrian Nanez, Ph.D.: I serve as his Ph.D. advisor. Mr. Nanez was awarded a predoctoral award by the National Institutes of Health in 2004 to carry out studies in my laboratory examining developmental renal deficits mediated by functional interactions



between *Ahr* and Wilms' tumor suppressor gene. In 2005 and 2007, Dr. Nanez won travel awards to attend the Gordon Research Conference on Mechanisms of Toxicity and the Teratology Society annual meeting in Pittsburg, PA., respectively. In 2007 he was selected as a finalist for the competitive Mechanisms Specialty Section Graduate Student Award and at graduation, he received recognition as a Dean's distinguished graduate student. He was employed for 8 years as Senior Scientist by Amgen Pharmaceuticals and is based at their Thousand Oaks facility in California and more recently transferred to Texas to serve manage clinical affairs for the company.

- 2002-2006 John He, M.S. I served as his MS research advisor. Mr. He completed a thesis in the area of biostatistics and bioinformatics. He then moved to Louisville to join the Center for Genetics and Molecular Medicine as a research scientist in the area of bioinformatics. In 2006, Mr. He was awarded a travel award to attend the Gordon Research Conference on Mechanisms of Toxicity. He currently serves as health bioinformatician at Norton Hospital in Louisville, KY.
- 2002-2003 Mahlet Tadesse, Ph.D.: I served as her joint postdoctoral advisor with Dr. Raymond Carroll as part of a Training Grant in Bioinformatics. She was a senior research associate in the Department of Statistics at Texas A&M University and a fellow in the laboratory. After holding a faculty position at the University of Pennsylvania she transferred to George Waghington University where she is a tenured Associate Professor with tenure in the Department of Mathematics and Statistics. She also holds an Adjunct Associate Professor position in the Department of Epidemiology at Harvard University. She is an elected member of the International Statistical Institute and a fellow of the American Statistical Association.
- 2004-2005 Roy Joseph, M.S.: I served as his research supervisor and chair of his committee for completion of a master's degree in Biochemistry. The title of his thesis was "Regulation of HMGA1 and HMGB1 by stress". His current status is unknown.
- 2004-2009 Ivo Teneng, Ph.D.: I serve as his primary research supervisor. In 2006, Mr. Teneng was recognized as the winner of the best poster presentation at the Biochemistry and Molecular Biology Colloquium. In 2006, Mr. Teneng was awarded a travel award to attend the Gordon Research Conference on Mechanisms of Toxicity and in 2007 he received a travel award from the American Society for Biochemistry and Molecular Biology. Upon graduation he was awarded a Dean's distinction for meritorious graduate research. He was a postdoctoral fellow at the Lovelace Inhalation Institute in Albuquerque, NM before entering medical school in 2014.
- 2004-2014 Diego Montoya-Durango, Ph.D., M.B.A.: I serve as Dr. Montoya's postdoctoral research advisor. His research focuses on the study of transcriptional and post-transcriptional mechanisms of LINE-1 gene expression with a focus on epigenetic control of gene expression. In 2006, Dr. Durango was awarded a travel award to attend the Gordon Research Conference on Mechanisms of Toxicity. He served as Research Coordinator in the laboratory for six years. In 2013 he was an invited speaker at the Gordon Research Seminar on Cellular and Molecular Mechanisms of Toxicity and won the Gordon Research Conference on Cellular and Molecular Mechanisms of Toxicity Best Poster Award. In 2014, he joined the Department of Ophthalmology at the University of Louisville as Assistant Professor.
- 2006-2009 Hong Gao, M.D., Ph.D. I served as Dr. Gao's postdoctoral research advisor. Her first

project in the laboratory focused on molecular regulation of the osteopontin gene. She then worked on L1 regulation in bronchial epithelial cells. She was a research fellow for several years before retiring to raise her children for some period. She now works as a research scientist at the University of Louisville.

- 2007-2009 Simin Khodady, B.S., M.P.H. I served as Ms. Khodady's major advisor for her work in the area of molecular environmental epidemiology. She is currently a homemaker here in Louisville.
- 2008-2009 Mary Lacy, M.D. I served as advisor of Ms. Lacy during her medical student summer research fellowship and she has continued research efforts in my laboratory. Her research project focused on epigenetic regulation of L1 element in mammalian cells. She completed residency training in Internal Medicine in the Department of Medicine at the University of Washington in Seattle and currently has an academic practice at the University of New Mexico School of Medicine.
- 2008 James Quertermous, M.D. I served as advisor of Mr. Quertermous during a medical summer research visit in the laboratory. His work focused on DNA methylation of L1 elements in embryonic kidney cells. He currently serves as resident in Dermatology at the University of Michigan.
- 2009 Lorell Ruiz, M.D. I served as advisor of Ms. Ruiz during a medical summer research visit in the laboratory. Her work focused on epigenetic control of the L1 retroelement. She currently is a resident in radiology at Baylor College of Medicine.
- 2010 Rihab Hamed-Berair, M.S. Ms. Berair rotated in my laboratory for four months. Her work is focusing on second generation sequencing of L1 in humans, polymorphic variants of L1, and bioinformatics. She is currently enrolled in the graduate program in Biochemistry and Molecular Biology at the University of Louisville.
- 2010- Pasano Bojang, Ph.D. Dr. Bojang is a postdoctoral fellow in the laboratory working on the elucidation of L1 genetic regulatory networks, characterization of L1 transcriptional complexes and the role of L1 in transdifferentiation and plasticity. In 2011, Dr. Bojang received a travel award to attend the Gordon Research Conference on Molecular Mechanisms of Toxicity. In 2013, his published work was featured in MDlynx. In 2017, Dr. Bojang was awarded an American Society for Human Genetics/Federation of American Societies for Experimental Biology Mentored Travel Award to attend the Annual Meeting to present his work entitled "Disruption of Mi2 $\beta$  and MBD2/3 corepressor functions mediates LINE-1 reactivation and tumorigenicity in human bronchial epithelial cells challenged with benzo(a)pyrene".
- 2011- 2013 Mark T. Haeberle, M.D. Dr. Haeberle was a postdoctoral fellow in the laboratory working on the study of macromolecular interactions governing regulation of L1 retrotransposon. He completed residency training in Dermatology at the University of Louisville Affiliate Hospitals and is currently a fellow in dermatopathology at the University of Pittsburgh and will be joining the faculty of medicine at the University of Louisville upon completion of his training.
- 2013- Michael Martin, M.S. Mr. Martin is currently a graduate student in the Department of Physics at the University of Louisville. He works on the development of computational

biology methodologies to unravel the complexity of epigenetic control of L1 retrotransposon.

- 2014 Brandon Watson, D.O., M.P.H. Dr. Watson is a fellow in the laboratory working on the regulation of L1 retrotransposon by environmental carcinogens and drug modulators of the PPAR response. He completed residency training in Medicine and Pediatrics at the University of Louisville Affiliate Hospitals. He is currently in private practice.
- 2014 Max Wattenberg, M.D., Dr. Wattenberg completed a research rotation in the laboratory focusing on epigenetic regulation of mammalian retroelements. He joined the Internal Medicine Residency Program and the University of California San Francisco.
- 2014 Abelardo Contreras, B.S., Mr. Contreras is pursuing undergraduate studies in pharmaceutical chemistry at the Universidad Autonoma de Nayarit. I served as his mentor during a summer research internship he completed in my laboratory to study the biology of LINE-1 retrotransposon and its regulation by environmental factors.
- 2014 – Elsa Merit Reyes-Reyes, Ph.D. Dr. Reyes joined the laboratory as Assistant Professor – Research to advance our understanding of epithelial-to-mesenchymal transition in cancers of the lung and the gastrointestinal tract.
- 2014–2016 Eugene H. Chang, M.D. Dr. Chang is an Associate Professor of Otolaryngology at the University of Arizona. I serve as one of his K08 award career mentors. His work combines an active clinical practice with research to help understand the basic processes of sinus disease and to develop future personalized therapies and treatments, with a particular focus on upper airway inflammation and sinusitis associated with cystic fibrosis.
- 2015 Jose Gonzalez, Mr. Gonzales is pursuing undergraduate studies in medicine at the Universidad Autonoma de Nayarit. I served as his mentor during a summer research internship he completed in my laboratory to study the biology of LINE-1 retrotransposon and its role in human disease.
- 2015 Stephanie Paredes, B.S., Ms. Paredes participated in a summer research internship program hosted by the University of Arizona for undergraduates interested in medicine and science. During her 2-month stay in the laboratory she completed work to study pharmacological regulation of LINE-1 retrotransposon.
- 2015-2016 Naim Spencer Duran, Mr. Duran is pursuing undergraduate studies in biology at the University of Arizona and was chosen as a research fellow in the Environmental Health Sciences Training Program for Undergraduates. The program hosts undergraduate students for 1.5 years in research laboratories for in-depth training in a research project of choice. He is currently studying the role of LINE-1 in metal-induced lung oncogenesis and in particular the nature of retrotransposition events and polymorphic variation in vitro.
- 2015 – Samwel Brian Onyango Ochieng, Mr. Onyango joined the laboratory as an undergraduate molecular biology major at the University of Arizona. He was chosen as a research fellow in the Environmental Health Sciences Training Program for Undergraduates and spent 1.5 years in my laboratory studying the efficacy of G-

quadruplex inhibitors in repression of LINE-1 retrotransposition in vitro. He rejoined the laboratory after completing one year of medical training as a fellow in the Medical Student Research Program to continue his work with G-quadruplex inhibitors in vivo. Sam is currently a second-year medical student at the University of Arizona College of Medicine-Tucson.

- 2015–2016      Rafael Guerrero-Preston, Ph.D., M.P.H. Dr. Guerrero-Preston is Assistant Professor of Otolaryngology at Johns Hopkins University. I serve as his mentor in the area of translational epigenomics within the Arizona Program to Increase Diversity Among Individuals Engaged in Health-Related Research. Dr. Guerrero has pioneered the use of Phase I Biomarker Development Trials to identify global DNA methylation biomarkers for early detection in cancer disparities research and later the use of genome-wide DNA methylation arrays and sequencing technologies to discover, develop and validate unbiased biomarkers for early detection research in cancer.
- 2015 –          Jason Karnes, Pharm.D., Ph.D. Dr. Karnes is Assistant Professor of Pharmacy Practice and Science. I serve as his primary mentor at the University of Arizona. He is taking advantage of the burgeoning genetics and immunogenetics to develop genome-wide association study to study Heparin Induced Thrombocytopenia (HIT). He is the recipient of career development awards from the American Association of Clinical Pharmacy and the American Hematological Society.
- 2015–2017      Anthony Maltagliati, M.S. Mr. Maltagliati completed studies in Cellular and Molecular Medicine before joining the laboratory to study clinical genetics of LINE-1 retroelement during occupational smoke exposures and patients with chronic obstructive pulmonary disease. He is a medical student at the University of Arizona College of Medicine-Tucson.
- 2016–          David O. Garcia, Ph.D. Dr. Garcia is an exercise physiologist with focused training in weight management and cancer. He is an Assistant Professor in the UA Enid and – Zuckerman College of Public Health where he has launched efforts to establish a program focusing on reducing obesity-related health disparities among Hispanic men, particularly Mexican Americans. I along with Dr. Cynthia Thomson serve as one of his primary career development mentors.
- 2016-          Isabel Runge. Ms. Runge completed her undergraduate research thesis in Molecular and Cellular Biology in my laboratory. The title of her work was Molecular Interactions between LINE-1 and Nucleolin.
- 2016-          Sara Moore, B.S., Ms. Moore completed here undergraduate research thesis in Molecular and Cellular Biology in my laboratory. The tile of her work was Regulation of LINE-1 in human bronchial epithelial cells. She continued her research in the laboratory during a gap year before matriculating in the Clinical and Translational Science program at the University of Arizona College of Medicine-Phoenix.
- 2017-          Emma Bowers, M.S., Ph.D., Dr. Bowers joined the laboratory as a postdoctoral research fellow to investigate the clinical utility of LINE-1 as a mechanism-based biomarker in pulmonary disease. She has extensive experience in the study of ozone health effects.
- 2018          Abeer Hassanin, D.V.M., Ph.D. Dr. Hassanin joined the laboratory as a visiting international scholar from Egypt to advance her knowledge and skills in the area of

molecular genetics and genetic engineering. She currently serves as Vice Dean for Graduate Studies and Scientific Research at the Fish Farming and Technology Institute of the Suez Canal University. She also holds a faculty appointment in the Faculty of Veterinary Medicine at this institution.

### **HIGH SCHOOL MINORITY STUDENTS TRAINED**

Ray Altamirano  
David Cantu  
Lindi Hall  
Andrea Tirres  
Kenneth A. Ramos  
Minerva Santa Cruz

Mark Hubball  
Steven Rojas  
Belen Serda  
Kendrick Abraham  
Adriana Velasquez

### **UNDERGRADUATE AND PROFESSIONAL STUDENTS TRAINED**

Patrice Bonawsky  
Todd Brown  
Peter Califura  
Eddy Carruthers  
Dana Potts  
Bic Chau  
Lisa Contardi  
Sally Crum  
Edna Easter  
Marlene Espinoza  
William Gregory  
Vicky Hastings  
Sharon Hedges  
Ashleigh Joiner  
Elaine Key  
Donna Miorelo  
Mike Nguyen  
Susan Souers  
Aaron Weldon  
Kristie Ramos  
Nicholas Smith  
Abelardo Contreras  
Stephanie Paredes  
Samwel Brian Onyango Ochieng  
Isabel Runge  
Marquis Carswell

Chris Niedzwicky  
Eric Oxford  
Kendra Pednault  
Jennifer Pinon  
Sam Bhakta  
Jeremy Rocha  
Edna Sanchez  
Damaris Santiago  
Cesar Saucedo  
Charity Sawyer  
Latonja Slaughter  
Jessica Smith  
Mary Stefaniak  
Elad Stotland  
Lora Torres  
Lee White  
Joey Conley  
Alexis Hand  
Michael Gayhart  
Danielle Brown  
Kenneth A. Ramos  
Jose Gonzalez  
Naim Spencer Duran  
Sarah Moore  
Demetria Clichee

### **M.D./D.V.M. STUDENTS TRAINED**

J'mail Cash, D.V.M.  
Celestine Alipui, M.B.Ch.B., M.S.  
Yong Zhang, M.D., Ph.D.  
Nahum Puebla, D.V.M., Ph.D.

Hadi Falahatpisheh, D.V.M., Ph.D.  
Xiaolan Ou, M.D., Ph.D.  
Sarah Jones, D.V.M., Ph.D.  
Hong Gao, M.D., Ph.D.

Mary Lacy, M.D.  
 Mark Tye Haeberle, M.D.  
 Max Wattenberg, M.D.  
 Adam Bernstein, M.D., Ph.D. candidate

Farid Eythrib, former M.D., Ph.D. candidate

Megan Ahern, M.D., Ph.D. candidate  
 Alex Alvarez, M.D., Ph.D. candidate

Mohammed Abdelrahim, former M.D. Ph.D. candidate  
 Hannah Johnson, M.D., Ph.D. candidate

Julie Huynh, M.D., Ph.D. candidate  
 Kendra Marr, M.D., Ph.D. candidate  
 Ike Chiyere, M.D., Ph.D. candidate

David Williams, M.D., Ph.D. candidate  
 Ashley, M.D., Ph.D. candidate  
 Ally Everly, M.D., candidate

James Quertermous, M.D.  
 Lorell Ruiz, M.D.  
 Alex Sandweiss, M.D., Ph.D. candidate  
 Matthew Bull, M.D., Ph.D. candidate  
 Shannon, Collins, M.D., Ph.D. candidate  
 Alice Ferng, former M.D., Ph.D. candidate  
 Jeremiah Bears, M.D., Ph.D. candidate  
 Austen Thompson, M.D., Ph.D. candidate  
 Andrew Tubb, M.D., Ph.D., candidate  
 Sanjay Menghani, M.D., Ph.D. candidate  
 Jessica Iwanski, M.D., Ph.D. candidate  
 Greg Branigan, M.D., Ph.D. candidate  
 Patrick Jedlowski, M.D., Ph.D. candidate  
 Benjamin, M.D., Ph.D. candidate  
 Kristie N. Ramos, M.D. candidate

## TEACHING ACTIVITIES

University of Texas at Austin: Undergraduate Pharmacology Laboratory  
 Undergraduate Research in Biochemical Pharmacology

University of Nevada School of Medicine: Medical Pharmacology

Philadelphia College of Pharmacy and Science: Several units were presented in the following team-taught courses:

### *Dual Level (Graduate/Undergraduate):*

Target-Organ Toxicology (Cardiovascular Unit)  
 Cardiovascular Pharmacology  
 Advanced Cardiovascular Physiology  
 Graduate Seminar in Pharmacology and Toxicology  
 Graduate Research in Pharmacology and Toxicology  
 Advanced Laboratory Problems in Pharmacology or Toxicology  
 Environmental Toxicology

### *Undergraduate Level:*

Toxicology Orientation  
 Seminar in Toxicology  
 Laboratory Problems in Pharmacology or Toxicology  
 Continuing Education in Pharmacology or Toxicology

University of Pennsylvania, School of Dental Medicine: Cardiovascular Pharmacology

Environmental Studies Institute, Drexel University: Environmental Toxicology

Texas Tech University Health Sciences Center: Medical Pharmacology/Toxicology  
 Principles of Molecular Pharmacology

## Cellular and Molecular Toxicology

- Texas A&M University: Topics on Oncogenesis  
 Principles of Basic Medical Sciences: Vascular Cell Biology  
 Control of Gene Expression  
 Biochemistry  
 Cellular Signaling  
 Graduate Seminar in Toxicology  
 Environmental Toxicology / Chemical Hazard Assessment  
 Genetic and Molecular Toxicology
- University of Louisville: Medical Genetics  
 Medical Biochemistry  
 Biochemistry Seminar  
 Research in Biochemistry and Molecular Biology  
 Mathematical Models in Computational Biology  
 Methods in Biochemistry and Molecular Biology  
 Molecular Toxicology  
 Global Environmental Health  
 Summer Environmental Health Sciences Research Training Seminar Series  
 Scientific Method and Writing Course  
 Bench to Bedside: Introduction to Clinical Research
- University of Arizona: Structured Mentorship for Third Year Medical Students  
 Undergraduate Pharmacology  
 MD-PhD Program Colloquium  
 Undergraduate Research Program  
 High School Student Research Program  
 BLAISER Research Program  
 Didactics, Internal Medicine  
 Intersessions, 3<sup>rd</sup> Year Medical School Curriculum

## CLINICAL ACTIVITIES

- University of Louisville Hospitals
- University of Louisville Clinical Trials Laboratory
- Kentucky Clinical Trials Laboratory
- University of Arizona Molecular Oncology Tumor Board
- Puerto Rico Clinical Trials Network
- Banner Health: Clinical Decision Support and Analytics

## PUBLIC HEALTH ACTIVITIES

- Community health worker education and training in Cameron Park, Texas, Louisville, Kentucky and Shelbyville, Kentucky.
- Community meetings on environmental health and infectious diseases in Cameron Park, Texas,

Louisville, Kentucky and Shelbyville, Kentucky.

Continuing education and continuing medical education programs for health care providers in the Lower Rio Grande Valley of Texas and Louisville, Kentucky

Community Health Assessments in Cameron Park, Texas and Shelbyville, Kentucky

Interdisciplinary Border Health Service Working Group, University of Arizona

## **DISSERTATION RESEARCH ADVISORY COMMITTEES**

### **University of the Sciences in Philadelphia, Philadelphia College of Pharmacy**

Dr. Lisa S. Beebe. "Adenylate cyclase regulation in the spermatogenic cell plasma membrane: Modulating effects of TPA and TCDD".

### **Texas Tech University Health Sciences Center**

Dr. Conney Kuratko. "Effects of dietary fat and dimethyl hydrazine on rat colonic antioxidant status: implications for carcinogenesis".

Dr. Jackie Wright. "Studies on the mechanism of carbon monoxide-induced coronary vasodilation".

### **Texas A&M University**

Dr. Ming-Yie Liu. "Pyrethroid insecticides: mode of action, target site resistance, and mechanism of synergism by formamidines".

Dr. Rhonda J. Rosengren. "The aryl hydrocarbon (Ah) receptor: kinetic analysis in rodents and characterization in human breast cancer cells and primary mammary tumors".

Dr. Mark Merchant. "Characterization and mechanism of action of aryl hydrocarbon receptor antagonists".

Dr. Larry W. Beck. "Investigation of solid acidity in zeolites and metal-oxide catalysts by nuclear magnetic resonance".

Dr. Michael Carvan. "*In vitro* toxicity of polycyclic aromatic hydrocarbons and halogenated aromatic hydrocarbons to cetacean cells and tissues".

Dr. Howard N. Gray. "The synthesis and characterization of surface-modified polyethylene via novel anionic grafting chemistry".

Dr. Xiahong Wong. "Characterization of the aryl hydrocarbon (Ah) receptor from transformed rodent and human cell lines: investigation of biomarkers for Ah-responsiveness".

Dr. Yanhui Yu. "Gas chromatography/mass spectrometry detection of polycyclic aromatic hydrocarbon metabolites in fish and its applications in environmental studies".

Dr. Susan R. Howe. "Rodent model of reproductive tract leiomyomata: characterization and use in preclinical therapeutic studies".

Dr. Craig Rowlands. "Antiestrogenic and antimitogenic effects of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin: *in vitro* mechanistic studies".

Dr. Linda DeAnne Moore. "Breakdown of the crystalloid endoplasmic reticulum of UT-1 cells".

Dr. Kathy Chalupka. "Complex mixtures of polynuclear aromatic hydrocarbons as Ah receptor agonists".

Dr. Michael Santostephano. "Structure-activity relationships of aryl hydrocarbon (Ah) receptor ligands: mechanistic studies".

Dr. David Jiang. "Modulation of intracellular biomarkers of colon cancer by dietary fat, fiber, and carcinogen in rat colonocytes".

Dr. William Hanneman. "Cellular fingerprinting of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin as a neurotoxicant".



- Dr. Yu Fang Lu. "Mechanism of action of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin: interactive effects of TCDD with retinoic acid and substituted flavones".
- Dr. James Hawker. "Mechanisms by which fibroblast growth factors stimulate DNA synthesis in coronary venular endothelial cells".
- Dr. Michael L. Moore. "Interaction of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin with other signal transduction pathways in human breast cancer cells".
- Dr. Fan Wang. "Regulation of cathepsin D gene expression in human breast cancer cells".
- Dr. Lixia Pu. "Structure, function and distribution of lipid binding proteins in mouse brain".
- Dr. Kevin Connor. "Estrogenic and antiestrogenic activities of industrial and food-derived compounds: Animal versus cell culture models".
- Dr. Weston Porter. "Regulation of heat shock protein 27 gene expression".
- Dr. Jun Jang. "Mechanisms of assembly of the heparin sulfate fibroblast growth factor receptor2 and FGF-7 signal transduction complex".
- Dr. Cody Wilson. "Identification and characterization of an aryl hydrocarbon receptor nuclear translocation protein variant".
- Dr. Christian David Galindo. "Topics in non-parametric regression: mean functional estimation and bootstrap confidence intervals for local estimating equations".
- Dr. Robert Rzas. "Structural, synthetic and biomechanistic studies of the novel immunosuppressant agent (-)-pateamine A".
- Dr. Richard Michael Corbett. "A classical synthetic approach to the potent tumor promoter ingenol, and classical and biomimetic approaches to the farnesyl transferase inhibitors CP-263,114 and Cp-225,917".
- Dr. Leticia Arellano. "Regulation of basal and inducible CYP1A1 gene expression in mammalian cancer cell lines".
- Dr. Kavita Ramamoorthy. "Estrogens, antiestrogens and their interactions: studies using the immature mouse uterine model".
- Dr. Renquin Duan. "Regulation of c-fos protooncogene expression in human breast cancer cells".
- Dr. I-Chen Chen. "Aryl hydrocarbon receptor-mediated antiestrogenic activity in human breast cancer cells."
- Dr. Steven Platts. "Regulation of vasomotor tone by the cytoskeletal axis".
- Dr. Gulan Sun. "Regulation of retinoic acid receptor- $\alpha$ , gene expression by 17- $\beta$  estradiol and 2,3,7,8 tetra-chlorodibenzo(p)dioxin in human breast cancer cells".
- Dr. Wen Xie. "Hormonal regulation of genes involved in purine and pyrimidine biosynthesis and metabolism in human breast cancer cells".
- Dr. Vincente Santa Cruz. "Biliary toxicity of nitroaniline"
- Dr. Emily Castro. "Estrogen and antiestrogen regulation of genes in human endometrial and breast cancer cells".
- Dr. Thu Nguyen. "Modulation of aryl hydrocarbon and estrogen receptor mediated responses by nuclear receptor co-regulators in breast cancer cells".
- Dr. Chunhua Qin. "Mechanisms of estrogen-regulated expression of insulin-like growth factor binding protein-4, ornithine decarboxylase, and p53 in human breast cancer cells".
- Dr. Mark Wormke. "Aryl hydrocarbon and estrogen receptor alpha crosstalk in human breast cancer and endometrial cancer cell lines".
- Dr. Matthew Stoner. "Differential regulation of vascular endothelial growth factor (VEGF) gene expression by 17 $\beta$ -estradiol in human breast and endometrial cancer cell lines".
- Dr. KyoungHuun Kim. "Characterization of estrogen receptor  $\alpha$ /Sp1 actions on GC-rich promoter by estrogen and antiestrogens".
- Dr. Nahum Puebla. "Aryl hydrocarbon receptor-mediated apoptosis in pre-B-cell lines through activation of caspase 9 and 3".

Dr. Awedis A. Kazanjain. "The role of growth factor independence-1 (GF11) in human neuroendocrine lung cancers".

Dr. Alvin Thompson III. "The inter-relationship between insulin and PTTG in human tumorigenesis".

Dr. Shahendra Hassanain. "PTTG Driven Tumorigenesis".

Dr. Sarah Andres. "A genomic approach for assessing clinical outcome of cancer".

Dr. Immaculate Amunon. "Lipid aldehydes are substrates and transcriptional regulators of Cytochromes P450".

Dr. Ngome Makia. "Cytochromes P450".

Dr. Rehab Hamed-Berair. "Role of miR21 in atherogenesis".

Dr. Erik A. Korte. "ABIN1 in the pathogenesis of glomerulonephritis and the novel podocyte-neutrophil proinflammatory axis".

Shubha Ghosh Dastidar.

Michael

## **MASTERS RESEARCH ADVISORY COMMITTEES**

### **Philadelphia College of Pharmacy**

Mr. Michael Angioli. "Interactions of bleomycin and iron in spermatogenic cells".

### **Texas A&M University**

Mr. Yu-Chyu Chen. "Short-term effects of commercial polychlorinated biphenyl (PCB) mixtures and individual PCB congeners in female Sprague-Dawley rats".

Ms. Lisa Schwade. "Precision-cut lung slices: a novel model for respiratory tract toxicology".

Ms. Risa L. Barker. "Role of excitatory amino acids in MOM LV- + S1-induced neurodegeneration".

Captain Victor Caravello. "Evaluation of the effectiveness of using alfalfa and buffalo grass for remediation of trichloroethylene from ground water".

Ms. Esther Collett. "Effect of docosahexaenoic acid on ras post-translational processing, localization and activity in a transgenic mouse colonic cell line".

Ms. Yang Tang. "Development of in vitro screening assays for potentially neurotoxic PAHs and HAHs in SY5Y and C6 cells".

### **University of Louisville**

Mr. Fadeen Guthrie Holden. "Logistic penalized spline regression with application to temporal disease clusters detection".

### **University of Arizona**

Ms. Mahwish Khalid. "LINE-1: Implications in the etiology of human diseases, clinical utilities and pharmacological targets for disease treatment.

## **OTHER PROFESSIONAL ACTIVITIES/COMMITTEE MEMBERSHIPS**

1984	College Representative to the Conference on Precollege Student Science Training Programs
1984 - 1987	Faculty Advisor to undergraduate toxicology students, The Philadelphia College of Pharmacy and Science

1984 - 1987	Speakers Bureau, Department of Pharmacology and Toxicology, Philadelphia College of Pharmacy and Science
1985	Representative of the Philadelphia College of Pharmacy and Science, Minority Program Martin Luther King
1985 - 1987	Smooth Muscle Research Group of Philadelphia
1986	Member Awards Subcommittee, Spring Meeting of the Mid-Atlantic Society of Toxicology
1986	Member, Program Committee, Tissue Culture Association, Delaware Valley Chapter
1986	Lecturer in Pharmacology, Schools of Nursing at Rutgers University and Neumann College
1986	Lecturer in Pharmacology, School of Dental Medicine, University of Pennsylvania
1987 - 1988	Graduate Seminar Coordinator, Department of Pharmacology, Texas Tech University Health Sciences Center
1987 - 1989	Liaison, Animal Care and Use Committee, Texas Tech University Health Sciences Center
1990 - 1994	Environmental Toxicology and Pharmacology, Seminar Coordinator, Faculty of Toxicology, Texas A&M University
1990	Nominee, Board of Trustees, Scientists Center for Animal Welfare
1990	Chairperson, Cardiovascular Toxicology Session, Annual Meeting of the Society of Toxicology
1990	Member, Placement Service, Annual Meeting of the Society of Toxicology
1991	Juror for the State of Texas
1992	Visiting Student Science Advisor, Minority Student Program, Annual Meeting of the Society of Toxicology
1993	Reviewer, National Research Council
1993	Science Advisor, Searle Pharmaceutical Company
1993	National Institute of Environmental Health Sciences Site Visit Team, Wayne State University
1993	National Institute of Environmental Health Sciences Site Visit Team, University of Texas Medical Branch
1994	Visiting Student Science Advisor, Minority Student Program, Annual Meeting of the Society of Toxicology
1994	Co-Chair, Proliferative Events in Toxicity, Annual Meeting of the Society of Toxicology
1994	Co-Chair, Oncogenes and Tumor Suppressor Genes, Annual Meeting of the Society of Toxicology
1994	National Institute of Environmental Health Sciences Site Visit Team, University of Texas - Medical Center in Houston
1995 - 1998	Member, Education Committee, Society of Toxicology
1995	Co-Chair, Proliferative Events in Toxicity, Annual Meeting of the Society of Toxicology
1995	Member, Review Committee, Health Effects in Vietnam Veterans of Exposure to Herbicides, National Academy of Sciences
1995	Chair, Toxicology Subcommittee, Review Committee on the Health Effects in Vietnam Veterans of Exposure to Herbicides
1995	Chair, National Institute of Environmental Health Sciences Site Visit Team, Duke University
1995	Chair, National Institute of Environmental Health Sciences Site Visit Team, Oregon State University
1996	Chair, National Institute of Environmental Health Sciences Site Visit Team, University of Wisconsin-Milwaukee

1996	Member, National Institute of Environmental Health Sciences Review Committee, Linking Environmental Agents to Disease
1996	Chair, National Institute of Environmental Health Sciences Review Committee
1997	Chair, Molecular Aspects of Oxidative Stress, Annual Meeting of the Society of Toxicology
1997 - 2000	Member, Program Committee, American Society for Pharmacology and Experimental Therapeutics
1997	Member, Committee on House Concurrent Resolution 44, Texas Department of Health
1997	Chair, Program Committee, Molecular Biology Specialty Section, Society of Toxicology
1998	Member, Cardiovascular Biology Theme Committee Meeting – 99 Experimental Biology
1998	Chair, National Institute of Environmental Health Sciences Site Visit Team, Massachusetts Institute of Technology
1998	Vice-Chair, American Heart Association Review Committee, Texas Affiliate
1998	Discussion Leader, Toxicant-induced alterations in gene transcription. Gordon Research Conference on Mechanisms of Toxicity
1998	Society of Toxicology Media Resource Specialist
1998	Chair, National Institute of Environmental Health Sciences Site Visit to Mount Desert Island Biological Laboratory
1998	Member, Review Consortium Planning Committee, American Heart Association
1998	Chair, National Institute of Environmental Health Sciences site visit to Harvard School of Public Health
1998 - 2000	Chair, Molecular Signaling Review Committee, American Heart Association
1999	Member, Program Committee, Society of Toxicology
2000	Chair, Genomics Platform Session, Society of Toxicology Animal Meeting
1998	Chair, Lower Rio Grande Valley Partnership Program, Harlingen, Texas
1998	Chair, Receptor Biology/Signal Transduction Poster Session, Annual Meeting Society of Toxicology.
1999	Member, National Institute of Environmental Health Sciences Site Visit Team, University of Washington
1998	Chair, National Institute of Environmental Health Sciences Site Visit Team, New York University
2000	Co-Chair, Genetic Susceptibility-Genetic Polymorphisms, Gordon Research Conference on Mechanisms of Toxicity
1998	Chair, National Institute of Environmental Health Sciences Site Visit Team, Emory University
2001	Chair, National Institute of Environmental Health Sciences Children's Health Centers Review Committee
1998	Chair, National Institute of Environmental Health Sciences R13 Application University of Texas at Austin
2001	Chair, National Institute of Environmental Health Sciences Toxicogenomics Grant Consortium Review
2001	Member, Neurosciences Review Committee, Texas A&M University
2002	Chair, National Institute of Environmental Health Sciences Parkinson's Research Centers Review Committee
2003	Chair, National Institute of Environmental Health Sciences Breast Cancer Research Centers Review Committee
2003	Chair, National Institute of Environmental Health Sciences Children's Research Centers Review Committee
2004	Chair, National Institute of Environmental Health Sciences Review Committee,

	Harvard University School of Public Health
2004 - 2007	Chair, National Academy of Sciences Committee on Emerging Data on Environmental Contaminants.
2004 – 2005	Member, Computational Toxicology Subcommittee of the Environmental Protection Agency Board of Scientific Counselors
2005	Member, National Institute of Environmental Health Sciences Strategic Planning Forum
2005	Member, National Center for Toxicogenomics Review Committee
2005	Chair, Bioinformatics Session, 1 <sup>st</sup> Annual Louisville Meeting on Environmental Metabolomics
2005	Member, National Academy of Sciences, National Research Council Committee on Applications of Toxicogenomic Technologies to Predictive Toxicology
2005	Co-Chair, National Academy of Sciences, National Research Council Committee on Validation of Toxicogenomics Technologies
2005	Member, National Academy of Sciences, National Research Council Committee on Genotype-To-Phenotype Correlation in Health and Disease: Applications of Genomic Signatures
2005	Member, National Institute of Environmental Health Sciences Strategic Planning for Environmental Genetics and Genomics
2006	Panelist, Woodrow Wilson International Center for Scholars Project on Emerging Nanotechnologies.
2006	Discussion Leader, Nucleo-cytoplasmic trafficking of proteins. Gordon Research Conference on Mechanisms of Toxicity.
2006	Member, National Institute of Environmental Health Sciences Committee on Biomarkers for Toxicology Studies.
2006	Chair, National Institute of Environmental Health Sciences Strategic Planning Workshop on Complex Human Diseases: Expanding the Gene-Environment Paradigm.
2007	Member, Environmental Health Perspectives Roundtable Discussion
2007	Member, National Heart and Lung Institute Review Panel on Methods of Analysis of Gene-Environment Interaction in Complex Diseases.
2007-2008	Member, Standing Sub-Committee on Evaluation of the National Center for Environmental Research of the Environmental Protection Agency
2008-2010	Member, Council of Scientific Society Presidents
2008	Member, Director of the National Institute of Environmental Health Sciences Search Committee, National Institutes of Health.
2008	Member, External Advisory Committee, Auburn University College of Pharmacy
2010-2011	Member of the Search Committee, Scientific Director, National Institute of Environmental Health Sciences, National Institutes of Health
2010-2011	Review Coordinator, National Academy of Sciences
2010-	Science Advisor, NexGen Project, Environmental Protection Agency
2011	Adhoc Member, Executive Committee, Brown Cancer Center
2011-2012	Member of the Search Committee, Associate Director for Health, National Health Research Laboratory, Environmental
2012	Consultant, Centers for Scientific Review, Environmental Health and Toxicology Working Group, National Institutes of Health
2012-2015	Member, Board of Scientific Counselors, Agency for Toxic Substances and Disease Prevention, Centers for Disease Control
2012-2015	Member, Research Committee of the American Heart Association Greater River Affiliate
2012-2015	Continuing Medical Education Task Force, Society of Toxicology
2012-2015	Board of Scientific Counselors Chemical Assessment Advisory Committee,

	Environmental Protection Agency
2013	Chair, National Institute of Environmental Health Sciences Review Committee on Chromatin Structure, Genomics and Transcriptional Responses to the Environment
2013 –	Member, National Academy of Sciences Roundtable on Public Interfaces of the Life Sciences
2013	Chair, National Institute of Environmental Health Sciences Review Committee on Environmental Influences on the Microbiome
2013-	Member, Human Subjects Review Board of the Environmental Protection Agency
2013	Member, World Trade Center Health Program Advisory Committee, National Academy of Sciences
2013	Poster Competition Judge, 9 <sup>th</sup> Congress of Toxicology in Mexico
2014	Member, Awards Committee, Hispanic Organization of Toxicologists
2014	Review Coordinator, National Academy of Sciences
2014	Chair, ONES Review Committee
2014	Chair, National Academy of Sciences Committee on Health Effects of Vietnam Veterans
2014	Member, Best Paper Award Selections Committee, Society of Postdoctoral Association
2015	Member, Awards Committee, Hispanic Organization Toxicologists
2015	Chair, NIH Pathway to Independence Award, National Institute of Environmental Health Sciences
2015 – 2016	Member, Interdisciplinary Toxicology Program Review, University of Georgia
2015	Steering Committee, Contemporary Concepts in Toxicology meeting on Toxicological Epigenomics
2015-	Mentor, Arizona Program for Undergraduate Research
2015-	Senior Advisors Research Committee, University of Puerto Rico Medical Sciences Campus
2015 –	Member, National Network on Pesticide Toxicity in Mexico led by Dr. Aurora Elizabeth Rojas
2015 –	Board Member, Watching Over Mothers and Babies Foundation
2015	Adhoc Member, Board of Scientific Counselors, Food and Drug Administration. Review of Bioinformatics and Biostatistics Program
2016	Chair, New Tools and Devices for Cell-based Therapy, Inaugural Cell Therapy and Regenerative Medicine Symposium, University of Arizona
2016 –	Board Member and Secretary, Puerto Rico Consortium for Clinical Investigation
2016 –	Chair, National Academies Committee on Gulf War and Health, Volume 11

## GRANT REVIEW BOARDS

1985	Ad Hoc Reviewer, Ben Franklin Partnership Program
1987 - 2014	Arizona Disease Control Research Commission Review Board
1989	National Cancer Institute (ad hoc)
1990 - 1994	American Heart Association - Texas Affiliate
1990	National Institute on Drug Abuse (ad hoc) - Pharmacology Study Section
1992	National Center for Research Resources - Research Centers in Minority Institutions/ National Institute of Environmental Health Sciences, Reverse site visit for six institutions
1992	National Cancer Institute (ad hoc), Site visit to McArdle Laboratory for Cancer Research, Tumor Biology Program Project, University of Wisconsin - Madison
1992	National Institute of Environmental Health Sciences, RFA Developmental Grant Environmental Health Science Center (ad hoc)

1992	National Institute of General Medical Sciences, Minority Biomedical Research Support (ad hoc)
1992	American Heart Association - National (ad hoc)
1993 - 1998	National Institute of Environmental Health Sciences, Environmental Health Sciences Review Committee; Chairman 1996-1998
1994	National Center for Research Resources - Research Centers in Minority Institutions - Site visit to Texas Southern University
1994	National Institutes of Health, Pathology A Study Section (ad hoc)
1995 - 2000	American Heart Association - Texas Affiliate, Research Allocations and Advisory Committee
1997 - 1999	Howard Hughes Pre-doctoral Fellowship Program in Biological Sciences - Neuroscience and Physiology 1 Review Group
1997	Department of Energy - HiCrest Program
1997- 1999	National Institutes of Health, Pathophysiological Sciences Integrated Review Group, ALTX-4 Study Section
1997	National Institutes of Health, Special Emphasis Panel
1998	National Institutes of Health, Special Emphasis Panel
1998	National Institutes of Health, Kidney O'Brien Center Grants
1998	National Institutes of Health, Special Emphasis Panel
1998	National Institutes of Health, Site visit to Harvard School of Public Health - Environmental Epidemiology Program
1998 - 2000	American Heart Association, Molecular Signaling, Western States - Texas Review Consortium
1999.	National Institute of Environmental Health Sciences, Site visit to University of Washington
1999.	National Institute of Environmental Health Sciences, Site visit to New York University
2000 – 2002	American Heart Association - Texas Affiliate, Research Allocations and Advisory Committee (Vice-chair)
2000	National Institute of Environmental Health Sciences, Transition to Independence Award (ad hoc reviewer)
2000	National Cancer Institute - Special Emphasis Panel, Molecular Approaches in Cancer Research
2001	National Institute of Environmental Health Sciences, Site visit to Emory University
2001	National Institute of Environmental Health Sciences, Children's Health Centers
2001	National Institute of Environmental Health Sciences, R13 Grant Review
2001	National Institute of Environmental Health Sciences, Toxicogenomics Grant Review Consortium
2001	National Institute of Environmental Health Sciences, Advisory Group Environmental Genome Project
2002 - 2006	National Institutes of Health, Pathophysiological Sciences Integrated Review Group, ALTX-4 Study Section
2002	National Institute of Environmental Health Sciences, Parkinson Disease Research Centers
2003	National Institute of Environmental Health Sciences/National Cancer Institute, Breast Cancer and the Environment Research Centers
2003	National Institute of Environmental Health Sciences/Environmental Protection Agency, Children's Environmental Research Centers
2003	University of Kansas, Center of Biological Research Excellence Program
2004	Oak Ridge Associated Universities (University of Florida), Ralph E. Powe Junior Faculty Enhancement Awards Program
2004	Environmental Protection Agency, Environmental Carcinogenesis Program
2004	National Institute of Environmental Health Sciences, Contracts Review Panel
2004	National Institute of Environmental Health Sciences, Harvard School of Public Health Program Project Grant Application

2005	National Institute of Environmental Health Sciences, R13 Grants
2005	Food and Drug Administration, Women's Health Proposal Review
2006	Children's Environmental Health Research and Prevention Funding Mechanisms Review
2009	ONES Review (Chair)
2012	Netherlands Organization for Scientific Research, Netherlands
2012	Agence Nationale de la Recherche, France
2013	National Institutes of Health, Special Emphasis Panel DKUS ZRG Systemic Injury by Environmental Exposure
2013	National Institute of Environmental Health Sciences, Transgenerational Effects of Environmental Exposures
2013	National Institute of Environmental Health Sciences, Chromatin Structure, Genomics and Transcriptional Responses to the Environment
2013	National Institute of Environmental Health Sciences, Conference Grants
2013	National Institutes of Health, Loan Repayment Program
2013	National Institute of Environmental Health Sciences, Environmental Influences on the Microbiome
2013	Environmental Protection Agency, Susceptibility and Variability in Human Response to Chemical Exposure
2014	ONES Review (Chair)
2014	Shriners Hospitals for Children, Tampa, Florida
2014	Reviewer, Human Frontier Science Program, Strasbourg Cedex, France
2015	NIH Pathways to Independence, National Institute of Environmental Health Sciences (Chair)
2015	Career Development Program, Arizona Institute of Clinical and Translational Sciences, Career Development Award Program
2015	National Institute of Environmental Health Sciences Clinical Research Program
2016	Chair, NIEHS Review Committee of Loan Repayment Program
2016	Reviewer, Arizona Area Health Education Center Research Grant Program
2016	Reviewer, Health Research Council of New Zealand
2016	Reviewer, Center for Scientific Review
2016	ONES Review (Chair)
2016	Reviewer, University of Arizona Health Sciences
2016	Reviewer, American Society for Human Genetics
2016	Reviewer and Back-up Chair, Precision Medicine Initiative Cohort Program
2017	NIEHS Review Committee of Loan Repayment Program (Chair)
2017	ONES Review (Chair)
2017	Shriners Hospitals for Children, Tampa, Florida

## ADVISORY BOARDS/COMMITTEES

1997 - 2000	Texas Southern University – Research Centers in Minority Institutions Program
1997	University of Wisconsin – Madison, Center for Environmental Health
1998- 2007	University of California Davis - Center for Environmental Health
1998	University of Texas M.D. Anderson Cancer Center, Science Park, Research Division, Center for Environmental Disease
1999 - 2002	University of Texas Health Science Center at Houston, School of Public Health: Reproductive Health, Serum Dioxin, and P450 Genes in Vietnam Veterans
1999 - 2002	National Institutes of Health Director's Council of Public Representatives - Associate
1999 - 2003	American Heart Association Board of Directors - Texas Affiliate
2000 - 2002	National Institutes of Health, National Advisory Committee on Alternative Toxicology Methods, National Toxicology Program
2000 - 2003	American Heart Association, Brazos Valley Board of Directors



2001 - 2003	Johns Hopkins University, Center for Alternatives to Animal Testing
2001 - 2006	National Institute of Environmental Health Sciences Board of Scientific Counselors
2003 - 2007	University of Miami Marine and Fresh Water Biomedical Sciences Center
2003	North Carolina State University, Department of Molecular Toxicology
2003- 2010	University of Rochester, Environmental Health Science Center
2004- 2010	West Virginia University Biomedical Research Interaction Network
2004-2005	U.S. Environmental Protection Agency - Board of Scientific Counselors Subcommittee on Computational Biology
2005	Meharry-Vanderbilt University ARCH Program
2005	National Center for Toxicogenomics Review Committee
2006 -	University of Medicine and Dentistry of New Jersey, Environmental Bioinformatics and Computational Toxicology Center
2006 - 2014	Kentucky Diabetes Research Board
2007 - 2010	Emerging Issues Committee, International Life Sciences Institute
2007	University of Arizona, Human Genes and Environment Training Grant
2008	Auburn University Pharmaceutical and Biomedical Sciences Program
2008	Systems Biology Program, Pacific Northwest National Laboratory
2009	Center for Environmental Genomics, University of Cincinnati
2009-2011	Fundamental and Computational Sciences Directorate Review Committee, Pacific Northwest National Laboratory
2009-2014	Diabetes and Obesity Research Center, University of Louisville
2015 – 2019	National Toxicology Program
2015 – 2018	Clinician-Scientist Engagement Task Force, Society of Toxicology.
2015 –	Watching Over Mothers and Babies Foundation
2015 –	Arizona Program to Increase Diversity Among Individuals Engaged in Health-Related Research
2015 –	University of Puerto Rico Medical Sciences Campus RCMI Program, Science Advisory Board
2016 –	Superfund Basic Research Program, Texas A&M University (Chair)
2016 –	National Institutes of Health TaRGET II Reference Epigenome Maps Consortium

## EDITORIAL BOARDS AND SERVICE

1988 -	Ad hoc reviewer for <i>Biochemical Pharmacology</i> , <i>Toxicology</i> , <i>Fundamental and Applied Toxicology</i> , <i>Cardiovascular Research</i> , <i>Journal of Pharmacology and Experimental Therapeutics</i> , <i>Arteriosclerosis and Thrombosis</i> , <i>Carcinogenesis</i> , <i>Journal of Cell Science</i> , <i>Environmental Health Perspectives</i> , <i>Science</i> , <i>Archives of Biochemistry and Biophysics</i> , <i>Journal of Clinical Investigation</i> , <i>Experimental Cell Research</i> , <i>Chemical Research in Toxicology</i> , <i>Atherosclerosis</i> , <i>Metabolism: Clinical and Experimental</i> , <i>Toxicological Sciences</i> , <i>Life Sciences</i> , <i>Cancer Causes and Controls</i> , <i>Journal of Vascular Research</i> , <i>Circulation Research</i> , <i>Genomics</i> , <i>Molecular Pharmacology</i> , <i>Kidney International</i> , <i>Cancer Research</i> , <i>Circulation</i> , <i>Free Radicals in Biology and Medicine</i> , <i>Journal of the American Nephrology Society</i> , <i>The FASEB Journal</i> , <i>Molecular and Cellular Biochemistry</i> , <i>Journal of the National Cancer Institute</i> , <i>American Journal of Physiology</i> , <i>Histology and Histopathology</i> , <i>American Journal of Physiology: Cell, Atherosclerosis, Thrombosis and Vascular Biology</i> , <i>Chemistry and Biology</i> , <i>Physiological Genomics</i> , <i>Molecular Carcinogenesis</i> , <i>European Journal of Biochemistry</i> , <i>Molecular Genetics and Metabolism</i> , <i>Proteomics</i> , <i>Journal of Molecular Biology</i> , <i>Proceedings of the National Academy of Sciences</i> , <i>Molecular Oncology</i> , <i>Journal of Environmental and Occupational Medicine</i> , <i>Journal of Medical Genetics</i> , <i>PLOS One</i> ,
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	<i>Molecular Biology Reports, Molecular and Cellular Biology, Mobile Genetic Elements, Cardiovascular Toxicology, Dove Review Press, Nature Reviews.</i>
1993 - 1996	<i>Toxicology Letters</i>
1993 - 2014	<i>Journal of Biochemical and Molecular Toxicology</i>
1994 - 1999	<i>Journal of Toxicology and Environmental Health</i>
1994 - 1999	<i>Annual Review of Pharmacology and Toxicology</i>
1995 - 1999	<i>American Journal of Physiology: Heart and Circulatory Physiology</i>
1995 - 2006	<i>Toxicology In Vitro</i>
1996 - 1999	<i>Toxicology and Applied Pharmacology</i>
1997 -	<i>In Vitro Cellular and Developmental Biology (Animal)</i> (Reviewing Editor)
1997 -	<i>Cell Biology and Toxicology</i> (Consulting Editor)
1998 - 2011	<i>Chemico-Biological Interactions</i>
1999 - 2010	<i>Vascular Pharmacology</i>
2000 - 2006	<i>Cardiovascular Toxicology</i> (Associate Editor)
2002 - 2006	<i>Environmental Health Perspectives: Toxicogenomics</i> (Founding Editor)
2005 - 2008	<i>Medicine</i>
2007 - 2017	<i>Environmental Health Perspectives</i>
2013 -	<i>Frontiers in Genetics</i>
2013-	<i>Journal of Biochemistry and Molecular Biology</i>
2016-	<i>Current Opinions in Toxicology</i>
2017 -	<i>F1000Prime</i>

## PROFESSIONAL LICENSURES

1982 – Pharmacist, Texas  
 2012 – Physician, Indiana  
 2014 – Physician, Arizona

## LANGUAGES

Fluent Spanish, Limited Italian, Limited French

## COMMUNITY SERVICE

1998	Member of the Board, Family Health Services, College Station, Texas
1998-2003	Member, Parent Teachers Organization, Southwood Valley Elementary
1999	Guest, Doctor's House Call Radio Show hosted by Dr. Richard Cashion, M.D.
2002	Member, Brazos Valley Division, Board of the American Heart Association
1999	Guest Speaker, Southwood Valley Elementary School, College Station, Texas
2001	Consultant, The Eagle Daily News, Bryan-College Station, Texas
2002	Speaker, Lower Rio Grande Valley Texas Seminars on Water Quality
2007	Speaker, Park Duvalle Environmental Health Issues Affecting Children and Women of Childbearing Age: What Health Care Providers Should Know
2010	Panelist, Nia Center Town Hall Meeting on Environmental Health in West Louisville, Kentucky
2011	Guest Speaker, Nia Center Community Forum on Infant Mortality, Louisville, Kentucky

## EXTERNAL CONSULTING

1994	Cullen, Carsner, Seerden, and Cullen, L.L.P.
1994	Jacob, Medingen and Finnegan, L.L.P.
1995 - 1996	Schering-Plough Pharmaceuticals
1995	Orgain, Bell and Tucker, L.L.P.
1997	Takeda Pharmaceuticals
1997	Akin, Gump, Strauss, Haner and Feld, L.L.P.
1997 - 1998	Germer and Gertz, L.L.P.
1998	Cox and Smith, L.L.P.
1998	Tekell, Book, Matthews, and Limmer, L.L.P.
1998	Germer, Gertz, Beamon and Brown, L.L.P.
2004	Fulbright and Jaworski, L.L.P.
2005	Kyowa Pharmaceuticals
2010	Environmental Protection Agency
2011	Shook Hardy and Bacon, LLP

## SERVICE / LEADERSHIP

### Offices (State and National Levels)

1986 - 1987	Councilor, Physiological Society of Philadelphia
1990	Councilor, Gulf-Coast Chapter Society of Toxicology
1991 - 1995	Presidential Chain, Gulf Coast Chapter of the Society of Toxicology. Vice-President Elect (1991-1992), Vice-President (1992-1993), President (1993-1994) and Past-President (1994-1995)
1997 - 2001	Presidential Chain, Molecular Biology Specialty Section of the Society of Toxicology. Vice-President Elect (1997-1998), Vice-President (1998-1999), President (1999-2000) and Past President (2000-2001)
2000 - 2002	Councilor, Society of Toxicology
2000 - 2004	Chair (2002-2004) and Vice-Chair (2000-2002), Gordon Research Conference on Mechanisms of Toxicity
2001 - 2003	Presidential Chain, American Heart Association-Texas Affiliate
2003 - 2008	Presidential Chain, Mechanisms Specialty Section of the Society of Toxicology. Vice-President Elect (2003-2004), Vice-President (2004-2005), President (2006-2007), Past President (2007-2008)
2006 - 2010	Presidential Chain, Society of Toxicology. Vice-President Elect (2006-2007), Vice-President (2007-2008), President (2008-2009), Past-President (2009-2010)
2007-2011	Kentucky Diabetes Research Board

### Committee Work

#### **Philadelphia College of Pharmacy and Science, University of the Sciences in Philadelphia**

1985 - 1987	Faculty Research Review Committee
1985 - 1987	Fellowship Subcommittee on Graduate Studies
1986 - 1987	Committee on Graduate Studies
1987	Chemistry Chairman Search Committee

#### **Texas Tech University Health Sciences Center**

1988 - 1989	Institutional Biohazards Committee
1988 - 1989	Animal Care and Use Committee

### Texas A&M University

- 1989 - Council of Principal Investigators
- 1990 - Graduate Council
- 1990 - 1993 Faculty Advisory Committee, College of Veterinary Medicine
- 1990 - 1994 Environmental Toxicology and Pharmacology, Seminar Coordinator, Faculty of Toxicology, Texas A&M University
- 1991 Cardiovascular Physiology Search Committee, College of Veterinary Medicine
- 1991 Faculty Appointment Advisory Committee, Department of Veterinary Anatomy and Public Health, College of Veterinary Medicine
- 1991 Cardiovascular Sciences Faculty Organizing Committee, College of Medicine
- 1993 Department Head Search Advisory Committee, Department of Physiology and Pharmacology, College of Veterinary Medicine
- 1993 - 1996 Selections Committee, College of Veterinary Medicine
- 1993 - 1995 Mentor, Initiative for Minority Students: Bridges to Baccalaureate Degree, NIH-funded effort
- 1994 - 1999 Mentor, Short-term training students in Health Professional Schools, NIH-funded effort
- 1994 Cancer Biology Search Committee, Institute of Biosciences and Technology, Texas A&M University
- 1994 - Mentor, Howard Hughes Minority Institute, Texas A&M University
- 1994 - 1997 Faculty Advisory Committee, College of Veterinary Medicine (Chairman 1996-1997)
- 1995 Selections Committee, Associate Dean for Professional Education, College of Veterinary Medicine
- 1995 Review Panel for Environmental Quality and Natural Resource Conservation, Texas Agricultural Experiment Station
- 1995 - 1997 Mayborn Chair Search Advisory Committee, Texas A&M University Health Science Center
- 1995 Member, Steering Committee, Texas A&M University System, Institute of Food Science and Engineering
- 1996 - 1997 Member, Academic Scholarship Selection Committee, Texas A&M University Honors Program and Academic Scholarships
- 1997 Member, Dean Search Committee, Texas A&M University College of Veterinary Medicine
- 1997 Member, Dean Search Committee, Texas A&M University Health Sciences Center, School of Public Health
- 1997 - 1998 Member, Faculty Senate Minority Conditions Sub-committee
- 1997 - 1998 Planning Committee, Comprehensive Oral Research Center, Baylor College of Dentistry
- 1997 - 1998 Research Space Advisory Committee, College of Veterinary Medicine
- 1997 - 1998 Member, Adhoc Committee on Faculty Reward Systems
- 1997 - 1999 Member, Promotion and Tenure Committee, Department of Veterinary Physiology and Pharmacology
- 1997 - 2000 Member, Faculty Advisory Committee (Chairman, 1997-1998)
- 1997 - 1998 Member, Organizing Committee Plant Pathology Review
- 1998 - Member, Associate Dean for Research Search Committee, Texas A&M University, College of Veterinary Medicine
- 1998 - Member, Protein Chemistry Laboratory User Committee
- 1998 - 2001 Member, Honorary Degree Committee, Texas A&M University
- 1998 Member, Interdisciplinary Planning and Oversight Committee, Texas A&M University
- 1998 - 2002 Veterinary Biotechnology and Genetics Advisory Committee
- 1998 Faculty Development Committee, School of Rural Public Health

- 1998 Faculty Development Committee, Texas A&M University Health Sciences Center
- 1999 Task Force on Life Sciences, Sub Committee on Genomics, Proteomics and Bioinformatics
- 2001 - 2003 Member, Life Sciences Task Force
- 2001 Member, Interdisciplinary Faculties Task Force
- 2001 Member, Faculty of Neuroscience Review Committee, Texas A&M University
- 2001 Member, Dean College of Science Search Committee

### **University of Louisville**

- 2003 - 2007 Council of the School of Medicine
- 2003 - 2007 Program Objectives Subcommittee for Curricular Development, School of Medicine
- 2003 - 2007 Basic Science Chairs, School of Medicine
- 2004 Anesthesiology Chair Search Committee, School of Medicine
- 2004 Bioinformatics Search Committee, School of Public Health and Information Sciences
- 2004 Liaison Committee on Medical Education, School of Medicine Committee
- 2004 Liaison Committee on Medical Education, Finance Committee
- 2004 Liaison Committee on Medical Education, Curriculum Committee
- 2004 – 2007 Council of the School of Dentistry
- 2004 – 2009 School of Medicine Teaching Awards Committee
- 2005 Pediatrics Chair Search Committee, School of Medicine
- 2005 Dean Search Committee, School of Medicine
- 2005 – 2009 Bioinformatics Task Force (Co-chairman)
- 2007 – 2010 Research Computing Infrastructure Subcommittee
- 2013 – 2014 Educational Policy Committee, School of Medicine
- 2013 – 2014 Introduction to Clinical Medicine Task Force

### **University of Arizona**

- 2014 FOBESII US-Mexico Bilateral Forum on Higher Education, Innovation and Research
- 2014 Co-Chair, Arizona Health Sciences Center Diversity Committee
- 2014 Member, Family and Community Medicine Chair Search Committee
- 2014 Member, Pharmacy Dean Periodic Review Committee
- 2014 Member, Tucson Wellness Initiative
- 2014 Member, Pulmonary, Allergy, Critical Care and Sleep Medicine Fellow Evaluation Committee
- 2014 Chair, Proteomics and Metabolomics Task Force
- 2014 Member, Genetics and Genomics Medical Review Board
- 2014 Member, Molecular and Precision Medicine Tumor Board
- 2015 Member, University of Arizona Presidents Cabinet
- 2015 Co-Chair, Internal Advisory Council, NHLBI R-25 on Health Disparities Research
- 2015 Member, Promotion and Tenure Committee, Department of Medicine, University of Arizona College of Medicine
- 2015 Member, Office of Research and Development Research Core Facilities Advisory Committee
- 2015 Co-Chair, College of Medicine Dean Search Committee
- 2015 Co-Chair, Director for Center for Diversity in Diabetes, Obesity and Metabolic Disorders
- 2015 Member, Chair of Medicine College of Medicine – Phoenix Search Committee
- 2016 Co-Chair, College of Pharmacy Dean Search Committee

## PATENT APPLICATIONS / OPTIONS

Use of Protein LINE-1 ORF-1 as a biomarker for cancer

## PUBLICATIONS

### Peer Reviewed Manuscripts

1. Acosta, D., **Ramos, K.** and Li-Goldman, C.P. Cellular injury in primary cultures of rat myocytes incubated in calcium-free medium followed by recovery in calcium. *In Vitro Cellular and Developmental Biology* 19(2), 141-144, 1983. Feb. 1983. PMID: 6826198.
2. **Ramos, K.** and Acosta, D. Prevention by 1-ascorbic acid of isoproterenol-induced cardiotoxicity in primary cultures of rat myocytes. *Toxicology* 26, 81-90, 1983.
3. **Ramos, K.**, Combs, A.B. and Acosta, D. Cytotoxicity of isoproterenol to cultured heart cells: Effects of antioxidants on modifying membrane damage. *Toxicology and Applied Pharmacology* 70(2), 317-323, 1983 Sep 15. PMID: 6312631
4. Acosta, D., **Ramos, K.** and Li-Goldman, C.P. Cell injury of cultured rat myocardial cells after reoxygenation of hypoxic cultures in the presence and absence of calcium. *In Vitro Cellular and Developmental Biology* 20(8), 642-646, Aug. 1984. PMID: 6500603
5. Acosta, D., **Ramos, K.** and Combs, A.B. Attenuation by antioxidants of Na<sup>+</sup>/K<sup>+</sup> ATPase inhibition induced by toxic concentrations of isoproterenol in cultured myocardial cells. *Journal of Molecular and Cellular Cardiology* 16, 281-284, 1984.
6. **Ramos, K.**, Combs, A.B. and Acosta, D. Role of calcium in isoproterenol cytotoxicity to cultured myocardial cells. *Biochemical Pharmacology* 33(12), 1989-1992, Jun 15 1984. PMID: 6732855
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