

# Lisa M. Harrison-Bernard, PhD, FAHA, FASN

## CURRICULUM VITAE

### PROFESSIONAL INFORMATION

*Office Address:* Associate Professor  
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### EDUCATION AND TRAINING

1984 B.A. Biology  
University of New Orleans; New Orleans, Louisiana  
Mentor: Roy Baerwald, Ph.D.

1990 Ph.D. Physiology  
Tulane University; New Orleans, Louisiana  
Mentors: R. Wayne Barbee, Ph.D. and Richard C. Vari, Ph.D.  
Dissertation: Chronic vs acute hemodynamic effects of atrial natriuretic factor in conscious rats

1990 - 1993 Postdoctoral Research Associate; Department of Physiology  
Tulane University School of Medicine  
Mentor: Pamela K. Carmines, Ph.D.

1993 - 1994 Postdoctoral Research Associate; Department of Physiology  
Tulane University School of Medicine  
Mentor: L. Gabriel Navar, Ph.D.

### EMPLOYMENT

1994 - 1996 Instructor; Department of Physiology  
Tulane University Health Sciences Center

1996 - 2003 Assistant Professor; Department of Physiology  
Tulane University Health Sciences Center

7/2003 - 12/2003 Associate Professor; Department of Physiology  
Tulane University Health Sciences Center

1/2004 - 6/2007 Associate Professor; Department of Physiology  
Louisiana State University Health Sciences Center

1/2004 - Present Adjunct Associate Professor, Department of Physiology  
Tulane University Health Sciences Center

7/2007 - Present      Tenured Associate Professor; Department of Physiology  
Louisiana State University Health Sciences Center

## **ACTIVE GRANT SUPPORT**

*National Institute of Heart, Lung, and Blood Institute. Centers of Biomedical Research Excellence COBRE P20 RR018766-08. "Mentoring in Cardiovascular Biology". Principal Investigator – Daniel R. Kapusta, PhD. Role: Established Investigator with a Career Development/Exploratory Research Project. Title of Project: "New Approaches for Slowing the Progression of Diabetic Renal Disease". Funding Period: July 1, 2011 – June 30, 2013. Role – Career Development Investigator. Support \$227,200.*

*National Institute of Heart, Lung, and Blood Institute. Centers of Biomedical Research Excellence COBRE P20 RR018766-08. "Mentoring in Cardiovascular Biology". Principal Investigator – Daniel R. Kapusta, PhD. Funding Period: July 1, 2008 – June 30, 2013. Role - Junior Investigator Mentor for Jason G. Gardner, PhD Total Support \$10,058,325.*

*American Society of Hypertension Young Scholars Award. Principal Investigator: Lisa M Harrison-Bernard, PhD. Support \$10,000.*

## **PREVIOUS GRANT SUPPORT AS A PRINCIPAL INVESTIGATOR**

- 1987 - 1988      Graduate Student Research Aid American Heart Association - Louisiana, Inc. "Regional Blood Flow Responses to Vasopressin" Mentor: Benjamin R. Walker, PhD
- 1991 - 1993      Hoffmann La Roche/National Kidney Foundation Fellowship. "Vasa Recta Control of Renal Medullary Microcirculation" Mentor: Pamela K. Carmines, PhD, Total Direct Costs \$42,000
- 1994 - 1997      NIH-NIDDK Individual National Research Service Award (NRSA). "Differential Control of Renal Cortical and Medullary Blood Flow" Mentor: L. Gabriel Navar, PhD, Total Direct Costs \$97,500
- 1995 - 1996      American Heart Association, LA Affiliate, Inc. Research Grant-in-Aid Beginning. "Differential Autoregulation of Cortical and Medullary Blood Flow in Rat Kidney" Principal Investigator, Total Direct Costs \$25,000
- 1996 - 1997      American Heart Association, LA Affiliate, Inc. Research Grant-in-Aid Beginning. "Renal AT<sub>1</sub> Receptor Regulation in Angiotensin II-Induced Hypertension" Principal Investigator, Total Direct Costs \$25,000
- 1996 - 1998      Shaul G. Massry, M.D. National Kidney Foundation Young Investigator Grant. "Hormonal Regulation of the Renal Medullary Circulation" Principal Investigator, Total Direct Costs \$50,000
- 1998 - 1999      American Heart Association, Southern and Ohio Valley Research Consortium. Research Grant-in-Aid Beginning. "Functional and Molecular Correlates of Angiotensin II Dependent Hypertension" Principal Investigator. Total Direct Costs \$25,000

- 1999 - 2002 National American Heart Association - Scientific Development Grant: 9930120N. "Functional and Molecular Correlates of Angiotensin II Dependent Hypertension". Principal Investigator. Total Support \$260,000.
- 2002 - 2010 National Institute of Diabetes and Digestive and Kidney Diseases. 1 R01 DK62003-05. "AT<sub>1</sub> Receptors in Renal Microvascular Physiology". Principal Investigator. Direct Support \$820,000; Total Support \$1,430,000.
- 2006 - 2008 National Institute of Heart, Lung, and Blood Institute Centers of Biomedical Research Excellence. COBRE P20 RR018766-06. "Mentoring in Cardiovascular Biology". Principal Investigator – Stephen M. Lanier, PhD. Project Period: 09/01/03-06/30/08. Role - Junior Investigator Mentor
- 2009 - 2010 *Louisiana State University Health Sciences Center School of Medicine Research Enhancement Fund Bridge Grant*. Principal Investigator: Lisa M Harrison-Bernard, PhD. Title: ACE-Independent Pathways in Diabetic Renal Vascular Disease. Funding Period: June 1, 2009 – May 31, 2010. Support: \$110,000.00. Returned July 17, 2009 Due to NIH Bridge Funding
- 2009 – 2011 *American Heart Association Grant-in-Aid*. 09GRNT2250875. Principal Investigator: Lisa M Harrison-Bernard, PhD. Title: ACE-Independent Pathways in Diabetic Renal Vascular Disease. Funding Period: July 1, 2009 – June 30, 2011 (No-Cost Extension June 30, 2012). Total Support: \$165,000.

## SUPPORT FOR TRAINEES

*American Heart Association Southeast Affiliate Predoctoral Grant* 0715445B. Role of angiotensin type 1 receptor in renal vascular function and structure. Student: Sungmi Park. Total Support \$76,000. Total Project Period: 07/01/07 - 6/30/09. Role: Mentor

*American Physiological Society Undergraduate Summer Research Fellow*. Targeting Chymase as the Major Pathway for Kidney ANGII Formation in Diabetes. Student: Sen Xu. Total Support \$5,600. Total Project Period: 05/17/10 - 07/23/10. Role: Mentor

*NHLBI 1T35HL105350, LSUHSC Summer Internship Program*. Principal Investigator - Paula Gregory, PhD. Medical Student Summer Research Internship. Student: Stephen M. Ford, Jr. Total Support \$3,300. Total Project Period: 06/01/11 – 07/22/11. Role: Mentor

*American Physiological Society Undergraduate Summer Research Fellow*. Role of Mast Cells in Diabetic Kidney Disease. Student: Kirsten A. Wood. Total Support \$5,600. Total Project Period: 05/29/12 - 08/10/12. Role: Mentor

*Louisiana Experimental Program to Stimulate Competitive Research (EPSCoR) Supervised Undergraduate Research Experiences (SURE) Competition*. Role of Mast Cells in Diabetic Kidney Disease. Student: Kirsten A. Wood. Total Support \$5,500. Total Project Period: 08/13/12 – 5/30/13. Role: Mentor

*NHLBI 1T35HL105350, LSUHSC Summer Internship Program*. Principal Investigator - Paula Gregory, PhD. Medical Student Summer Research Internship. Student: Kirsten A. Wood. Total Support \$3,000. Total Project Period: 06/01/12 – 07/31/12. Role: Mentor (Declined Due to APS Funding)

## HONORS AND AWARDS

1980 - 1982	T.H. Harris Scholarship
1984	Academic Achievement Award in Biological Science
1985 - 1990	Tulane University Graduate School Scholarship
1985 - 1990	Supported by Institutional National Research Service Award
1994 - 1997	National Research Service Award Postdoctoral Fellowship
2001	Elected Fellow of the American Heart Association - Council for High Blood Pressure Research
2004	American Society of Hypertension Young Scholars Award; Awards Lecture "Angiotensin II in the Regulation of the Renal Microvasculature: Lessons from Genetic Mouse Models"
2004	Elected Fellow of the American Society of Nephrology
2007	American Physiological Society Research Career Enhancement Award for the Technical Training (\$4,000; 3 wks) of Charlotte Mehlin Sorensen, PhD, Assistant Professor, University of Copenhagen, DENMARK
2008	Distinguished Graduate Award, Saint Benilde Elementary School, Metairie, LA
2010	American Journal of Physiology: Renal Physiology Paper of the Year "Major role for ACE-independent intrarenal ANG II formation in type II diabetes"
2012, 2013	Nominated for the LSUHSC School of Medicine Outstanding Mentor Award
2012	Nominated for the LSUHSC Faculty Excellence in Teaching Award by the Aesculapian Society of Medical Students

## TRAINEE AWARDS

04/2008	Sungmi Park: American Physiological Society Renal Section Pfizer Predoctoral Excellence in Renal Research Award Finalist
10/2008	Sungmi Park: Forest Pharmaceuticals New Investigator Travel Award for Jackson Cardiovascular-Renal Meeting
04/2009	Sungmi Park: American Physiological Society Renal Section Pfizer Predoctoral Excellence in Renal Research Award Finalist
02/2011	Sen Xu: American Physiological Society David S. Bruce Outstanding Undergraduate Abstract Award
07/2011	Stephen M Ford, Jr: First Place - LSUHSC Summer Research Internship Program Medical Student Symposium Excellence in Renal Research Award Finalist
2/2013	Kirsten A. Wood: American Physiological Society David S. Bruce Outstanding Undergraduate Abstract Award

## STUDY SECTION AND PEER REVIEW COMMITTEES

12/2001	NIDDK. RFA DK-01-016. Center of Excellence in Pediatric Nephrology. Scientific Review Administrator: Dan E. Matsumoto, Ph.D.
2002	Ad Hoc Reviewer for the Veterans Administration Research Fund
2004	Invited Pre-Review for the Veterans Administration Research Fund
9/2005	Ad Hoc Reviewer for NIH Hypertension and Microcirculation Study Section; Scientific Review Administrator: Ai-Ping Zou, PhD; Chairperson: Walter N. Duran, PhD (service postponed due to Hurricane Katrina)
04/2008	Greater Southeast Affiliate American Heart Association Peer Review Committee Member R2-Cardiorenal: Chairperson: Michael W. Brands, PhD
2009	Swiss National Science Foundation

04/2011	American Heart Association Peer Review Committee Member R1-Cardiorenal: Chairperson: John N. Lorenz, PhD
06/2011	Ad Hoc Reviewer for NIH Hypertension and Microcirculation Study Section; Scientific Review Administrator: Ai-Ping Zou, PhD; Chairperson: Marc Kaufman, PhD
10/2011	NIH Vascular and Hematology Study Section; Council ZRG1 VH-D 90S; Scientific Review Administrator: Ai-Ping Zou, PhD
04/2012	Co-chairperson of the American Heart Association Peer Review Committee R1-Cardiorenal: Chairperson: David Stec, PhD
06/2012	NIH Vascular and Hematology Study Section; Council ZRG1 VH-D 90S; Scientific Review Administrator: Ai-Ping Zou, PhD
10/2012	American Heart Association Peer Review Committee Member CardioRenal Basic Science 1: Chairperson: David Stec, PhD
12/2012	External Reviewer, The British Diabetic Association Grant Reviewer

### **JOURNAL EDITORIAL BOARD**

2000 – 2011	Editorial Review Board Member of the <i>American Journal of Physiology: Heart &amp; Circulatory Section</i>
2004 - 2007	Editorial Review Board Member of <i>Hypertension</i>
2010 - Present	Editorial Review Board Member of <i>Frontiers in Renal and Epithelial Physiology</i>
2011 - Present	Editorial Review Board Member of the <i>American Journal of Physiology: Renal Physiology</i>
2011 - Present	Editorial Review Board Member for Gender Medicine, The Journal for the Study of Sex and Gender Differences
2013 – Present	Editorial Board Member of <i>Physiological Reports</i>

### **AD-HOC REVIEWER FOR SCIENTIFIC JOURNALS**

Acta Physiologica  
Advances in Physiology Education  
American Journal of Physiology  
    Cell Physiology  
    Endocrinology and Metabolism  
    Heart and Circulatory Physiology  
    Regulatory, Integrative and Comparative Physiology  
    Renal Physiology  
Circulation Research  
Experimental Physiology  
Hypertension  
Journal of the American Society of Hypertension  
Journal of Histochemistry and Cytochemistry  
Journal of Hypertension  
Journal of the American Society of Nephrology  
Kidney International  
Life Sciences  
Peptides  
Physiological Reports  
PLOS ONE

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

1988 - Present	American Physiological Society Primary Affiliation - Renal Section Secondary Affiliation - Section on Water & Electrolyte Homeostasis Tertiary Affiliation - Cardiovascular Section
1991 - Present	American Heart Association - Council on Kidney in Cardiovascular Disease
1991 - Present	American Heart Association - Council for High Blood Pressure Research
1993 – 2012	American Society of Nephrology
1999 - 2005	International Society of Nephrology
1993 – 2011	Women in Nephrology
1998 - Present	American Heart Association - Council for High Blood Pressure Research Fellow
2004 - 2005	American Society of Hypertension
2010 - Present	Association for Women in Science South Louisiana Chapter

## **PROFESSIONAL SOCIETY COMMITTEES**

1999 - 2001	Appointed to American Physiological Society, Women in Physiology Committee
2001 - Present	Appointed to American Heart Association, Council on the Kidney and Cardiovascular Disease Program Committee
2002 - 2003	Elected to Gulf Coast American Physiological Society, Councilor
2002	Elected to Graduate Faculty of Tulane Medical School
2003 - 2005	Appointed to American Physiological Society, Membership Committee
2003 - Present	Women in Nephrology Programming Committee
2004	Elected to Graduate Faculty of LSUHSC
2005 - 2007	Appointed to American Physiological Society, Chair of the Membership Committee - Annual Attendance to American Physiological Society Summer Council Meeting in Bethesda, MD and 2005 APS Strategic Planning Meeting in Houston, TX
2006 - 2012	Appointed to Council for High Blood Pressure Research Membership Committee
2008 - 2010	Appointed to American Physiological Society, Education Committee
2010 - 2013	Appointed to Council for High Blood Pressure Research Fall Conference Committee

## **ORGANIZING COMMITTEE SCIENTIFIC MEETINGS**

2011	Council for High Blood Pressure Research Program Committee - Diabetes
2011- 2013	2013 FASEB Summer Conference on Renal Hemodynamics Organizing Committee
2012 - Present	Council for High Blood Pressure Research Program Committee

## **SESSION CHAIR OF SCIENTIFIC CONFERENCES**

1998	Experimental Biology; Chair - Renin-Angiotensin
2000	American Society of Nephrology; Chair - Vascular Physiology
2000	American Heart Association; Moderator - Peptide Hormones in Heart and Renal Dysfunction
2002	Experimental Biology; Symposium Organizer, Chair, and Speaker - Functional Heterogeneity in the Renal Microcirculation, Topic "Angiotensin responses in the renal microvasculature"
2002	American Society of Nephrology; Moderator - Symposium Entitled Advances in Understanding the Biology of the Renin-Angiotensin System



- 2003 Experimental Biology; Chair - Insights on renal function and blood pressure control from genetically manipulated animals
- 2005 Council for High Blood Pressure Research; Moderator - Renin Angiotensin System and Renal Function
- 2006 Experimental Biology; Symposium Organizer and Chair - Obesity and Renal Disease
- 2006 Council for High Blood Pressure, Poster Session Moderator - Angiotensin Receptors and Signal Transduction
- 2006 American Society of Nephrology; Symposium Moderator - Mechanisms Underlying Exercise Attenuation of Cardiovascular Risk
- 2006 American Society of Nephrology; Chair - Novel Pathways Mediating Angiotensin II Effects on the Kidney
- 2007 FASEB Summer Research Conference Renal Hemodynamics: Biomolecular Control Mechanisms Integrating Vascular & Tubular Function, Chair Featured "Hot-Topic" Presentation
- 2008 Council for High Blood Pressure, Poster Session Moderator – Regulation of Renin-Angiotensin System
- 2008 Council for High Blood Pressure, Session Co-Chair – Angiotensin Receptors and Signal Transduction
- 2009 Experimental Biology; Chair – Renal Hemodynamics
- 2010 Experimental Biology; Symposium Organizer and Chair – Mouse Models of Diabetic Renal Disease
- 2010 Council for High Blood Pressure, Session Co-Chair – Vascular and Renal Signaling
- 2011 Council for High Blood Pressure, Session Chair – Diabetes

#### **ABSTRACT REVIEWER FOR SCIENTIFIC CONFERENCES**

- 1999, 2000, 2011 Review for Experimental Biology Carol tum Suden Award
- 2013
- 2000 American Society of Nephrology; Vascular Physiology - Hemodynamics, Hypertension and Vascular Regulation
- 2002, 2003, 2004 American Heart Association; Endothelium and Vascular Tone, Cardiorenal
- 2005, 2006, 2007 Physiology and Pathophysiology
- 2008, 2012, 2013
- 2006 American Society of Nephrology Review Category Chair for Mediators, Signaling, Cell Growth, Apoptosis and Neoplasia: Hormones/Peptides/Growth Factors
- 2006, 2007, 2008 Council for High Blood Pressure Research Abstract Reviewer - Renin Angiotensin System
- 2012 Council for High Blood Pressure Research Abstract Reviewer – Renal Hemodynamics & Renovascular Hypertension; Angiotensin Converting Enzymes

#### **WORKSHOP ORGANIZING COMMITTEE**

- 2002 Experimental Biology; Sponsored by Women in Physiology Committee - Symposium on 'How to be a Good Mentor/Mentee'
- 2009 Experimental Biology; Sponsored by Education Committee – Moderator for Medical Physiology Course Directors Meeting

## **INSTITUTIONAL RESPONSIBILITIES**

### ***Louisiana University Health Sciences Center***

2006 - 2007	Institutional Biosafety Committee
2007 - 2012	Sabbatical Leave Committee
2010 - 2012	Committee on Women's Affairs
2007, 2009, 2010 2012	Judge for LSUHSC Graduate Research Day
2011 - 2013	Faculty Assembly Alternate Delegate for Basic Sciences
2011 - 2013	Committee on Academic Standards
2013 - 2016	Faculty Assembly Delegate for Basic Sciences

## **DEPARTMENTAL RESPONSIBILITIES**

### ***Louisiana University Health Sciences Center***

2004 - Present	Elected to Graduate Faculty of LSUHSC
2004 - 2005	Chairperson of the Directors of the Physiology Core Facilities
2004 - 2005	Director of the Physiology Molecular Core Facility
2004 - 2008	Member of Physiology Faculty Search Committee
2008 - 2012	Physiology Seminar Series Coordinator
2010	Physiology Workshop for Undergraduate and High School Summer Research Fellows – Workshop Director
2010 - Present	Member of Physiology Graduate Student Committee
2010 - Present	Chair of Physiology Graduate Student Mentoring Subcommittee
2011 - Present	Member of Physiology Faculty Search Committee

### ***Tulane University Health Sciences Center***

1995 - 2000	Chair Library and Educational Aids
1995 - 2003	Departmental Photographer
1995 - 2003	Member Seminar Committee
1998 - 2001	Member Renal Research Conference Committee
1998 - 1999	Burroughs Wellcome Fund/FASEB Wellcome Visiting Professorship the Basic Sciences , Professor Pierre Corvol, Professor and Chairman of the Department of Experimental Medicine and Research, Director of Vascular Pathology and Renal Endocrinology, INSERM U36 at the Collège de France, Paris, France
2000 - 2001	Member Graduate Studies and World Wide Web
2000 - 2003	Coordinator of Women in Physiology Scientists' Monthly Business Meetings
2000 - 2003	Member Library and Educational Aids
2001 - 2003	Graduate Studies Committee
2001 - 2003	Biomedical Engineering and Undergraduate Liaison Committee
2002	Host New Orleans Style Welcome Reception for EB2002 Scientific Meeting
2002 - 2003	Director of the HEF/COBRE Digital Imaging Core Facility
2003 - 2003	Member Facilities, Space and Shop Committee

## **INVITED LECTURES**

1995	Archbishop Blenk High School, New Orleans, LA. "What Are Possible Career Choices in the Sciences?"
1995	FASEB Summer Research Conference: Renal Hemodynamics - Vascular Biology of the Renal Circulation, Saxtons River, VT. "Juxtamedullary Efferent Arteriolar Blood Flow Autoregulation"



- 1998 FASEB Summer Research Conference: Renal Hemodynamics - Integration of Endothelial, Epithelial and Vascular Control Mechanisms, Saxtons River, VT. "Hormonal Regulation of the Renal Medullary Circulation"
- 1999 Invitation by Leopoldo Raij, MD, Division of Nephrology/Hypertension, Veterans Affairs Medical Center, University of Minnesota Medical School, Minneapolis, MN. "Regulation of Angiotensin II Type 1 Receptor in Hypertension"
- 1999 Featured Speaker American Heart Association Quarterly Regional Staff Meeting, Mandeville, LA. "American Heart Association - View on Basic Research"
- 1999 Invitation by Pamela K. Carmines, PhD, Department of Physiology & Biophysics, University of Nebraska College of Medicine, Omaha, NE. "Angiotensin II type 1 Receptor Regulation in Hypertension"
- 2000 Invitation by William J. Arendshorst, PhD and L. Gabriel Navar, PhD. Angiotensin II Receptor Blockade: Effects Beyond Blood Pressure Control Scientific Meeting. Prague, Czech Republic. "Blockade of Renal AT<sub>1B</sub> Receptors by Candesartan"
- 2000 Featured Speaker Annual Heart Smart Seminar, Ruston, LA. "Inside Edition: American Heart Association Scientific Research"
- 2000 Television Interview for WVUE Health Quest, New Orleans, LA. "Research Funding by the American Heart Association" in Association with the New Orleans American Heart Association Gala Event
- 2001 FASEB Summer Research Conference: Renal Microcirculatory Hemodynamics - Molecular, Cellular, Physiologic, Clinical and Integrative Mechanisms, Saxtons River, VT. "Angiotensin Receptor Expression in the Kidney"
- 2001 Invitation by L. Lee Hamm, MD, Renal, Hypertension and Cardiovascular Conference. Tulane University Health Sciences Center, New Orleans, LA. "Angiotensin II Effects on the Renal Microvasculature: Role of AT<sub>1A</sub>, AT<sub>1B</sub> and AT<sub>2</sub> Receptors"
- 2002 Experimental Biology Meeting, New Orleans, LA. "Angiotensin Responses in the Renal Microvasculature"
- 2003 Invitation by Juan Lertora, MD, Workshop on Grant Writing and Grantsmanship Hosted by Tulane and Xavier Universities, New Orleans, LA. "How to Become a First-Time Recipient of an NIH RO1 Grant"
- 2003 Invitation by Frank Park, PhD, Gene Therapy, LSUHSC, New Orleans, LA. "Angiotensin II in the Regulation of the Renal Microvasculature: Lessons from Genetic Mouse Models"
- 2003 Department of Physiology, LSUHSC, New Orleans, LA "Angiotensin II Receptor Function in the Renal Microvasculature"
- 03/2004 Invitation by Christopher Wilcox, MD, Division of Nephrology and Hypertension, Department of Medicine, Georgetown University, Washington, DC. "Angiotensin II Type 1 Receptors in Renal Microvascular Physiology"
- 05/2004 American Society of Hypertension, New York, NY. "Angiotensin II in the Regulation of the Renal Microvasculature: Lessons from Genetic Mouse Models"
- 06/2004 FASEB Summer Research Conference: Renal Microcirculatory and Tubular Dynamics: Molecules to Man, Pine Mountain, GA. "Angiotensin Receptor Function in the Renal Microcirculation"
- 04/2005 Invitation by Pierre Corvol, MD, Pathologie Vasculaire et Endocrinologie Rénale, College de France, Paris, France. "Genetic Mouse Models of AT1 Receptor Subtypes: AngII Function in the Renal Microvasculature"
- 04/2005 Invitation by Anders Ljunggren, PhD and Peter Morsing, PhD, Workshop on Angiotensin II Receptor Blockade, Chantilly, France. "Direct Evidence of Blockade of Renal Microvascular AT1A and AT1B Receptors by Candesartan"

- 09/2005 Invitation by Mark A. Knepper, MD, PhD, NIH NHLBI, Kensington, MD. "Function of AT1 Receptor Subtypes in the Renal Microvasculature: Genetic Mouse Models" (Visit will be rescheduled due to Hurricane Katrina.)
- 05/2006 Invitation by Hamid Boulares, PhD, Department of Pharmacology & Experimental Therapeutics, LSUHSC, New Orleans, LA. "Genetic Evidence for AT1 Receptor Subtype Function in the Renal Microvasculature"
- 09/2006 Invitation by Johnny Porter, PhD, Department of Physiology, LSUHSC, New Orleans, LA "Diabetic Renal Vascular Dysfunction"
- 04/2007 Experimental Biology Meeting, Washington, DC. Physiology Understanding (PhUn) Week Training Session, "Effective Teaching Methods for High School Students"
- 09/2007 Invitation by Lisa A Cassis, PhD, Cardiovascular Seminar Series, University of Kentucky, Lexington, KY "Control of the Renal Microvasculature by Angiotensin II"
- 11/2007 Invitation by Dewan SA Majid, PhD, Department of Physiology Seminar Series, Tulane University Health Sciences Center, New Orleans, LA "Renin-Angiotensin System in Type II Diabetic Renal Disease"
- 12/2007 Invitation by Michael J Ryan, PhD, Department of Physiology & Biophysics, Jackson, MS "Angiotensin Converting Enzyme Independent Pathways for Angiotensin II Formation in the Diabetic Kidney"
- 03/2008 Invitation by L Gabriel Navar PhD, Tulane Hypertension and Renal Center of Excellence Seminar Series, Tulane University Health Sciences Center, New Orleans, LA "ACE-Independent Pathways in Diabetic Renal Vascular Disease"
- 03/2008 Invitation by Efrain Reisin, MD, LSUHSC Section of Nephrology and Hypertension Fellows Forum, New Orleans, LA "Novel Pathways for ANGII Generation in Diabetic Renal Vascular Disease"
- 03/2008 Department of Physiology, LSUHSC, New Orleans, LA "Renal Microvascular Responses Induced By ACE-Independent Generation of Angiotensin II In Type II Diabetes"
- 04/2008 Experimental Biology Meeting, San Diego, CA. Physiology Understanding (PhUn) Week Training Session, "Food Labels/Nutrition Effective Teaching Methods for Elementary School Students"
- 04/2009 Experimental Biology Meeting, New Orleans, LA. American Physiological Society Teaching Refresher Course in Renal Physiology, Topic "Renin Angiotensin System"
- 04/2010 Invitation by Dewan SA Majid, PhD, Department of Physiology Seminar Series, Tulane University Health Sciences Center, New Orleans, LA "Chymase: the other ACE?"
- 04/2010 Experimental Biology Meeting, Anaheim, CA. Mouse Models of Diabetic Renal Disease Symposium; Title "Role of ACE-dependent and ACE-independent pathways in diabetic renal disease"
- 09/2010 Invitation by Avanelle Jack-Jackson, MD, LSUHSC Section of Nephrology and Hypertension Fellows Forum, New Orleans, LA "Targeting chymase in the treatment of diabetic nephropathy"
- 02/2011 Invitation by Dennis B McNamara, PhD, Department of Pharmacology Seminar Series, Tulane University Health Sciences Center, New Orleans, LA "Direct evidence for intrarenal chymase-dependent angiotensin II formation on the diabetic renal microvasculature"
- 02/2012 Angiotensin: Emerging and Evolving Paradigms in the Renin Angiotensin System Gordon Conference, Ventura, CA. Conference Organizer: Kathryn Sandberg, PhD. Session Topic: Breaking news in the Cardio-Renal RAS: Focus on chymase and mast cells. Session Chair: Helmy Siragy, MD. Seminar Title:

- 05/2013 "Targeting renal chymase in diabetic nephropathy: Why ACE inhibition is not enough"  
 Invitation by Minolfa Prieto, MD, PhD, Department of Physiology Seminar Series, Tulane University Health Sciences Center, New Orleans, LA "Targeting renal chymase in diabetic nephropathy"
- 11/2013 American Society of Nephrology: Session Topic: More than just ACE inhibitors: new targets for treatment of diabetic nephropathy. Session Chair: Ahsan Husain, PhD. Seminar Title: "Not an ACE in the hole: chymase and serine proteases as a target in diabetic nephropathy"

## COMMUNITY SERVICE

- 1999 - 2002 Captain Physiology American Heart Association Walk
- 2000 Featured Speaker for the Fifth Annual Heart Smart Seminar at the Lincoln General Hospital in Ruston, LA - "Inside Edition: American Heart Association Scientific Research"
- 2000 Television Interview Held in the Tulane Microcirculation Lab Discussing the Research Funded by the Louisiana American Heart Association for WVUE Health Quest
- 2000 Spokesperson for American Heart Association Gala Event in New Orleans
- 2005 Conducted Third Grade Science Class (40 students) at St. Benilde Elementary School, Metairie, LA Entitled "Water Any Body?"
- 12/2006 Conduct Fifth Grade Science Class (31 students) at St. Benilde Elementary School, Metairie, LA for the APS Physiology Fun Week (PhUn Week) Entitled "The Heart is a Pump"
- 12/2006 Conduct Tenth Grade Science Class (26 students) at Archbishop Rummel High School, Metairie, LA for the APS Physiology Fun Week (PhUn Week) Entitled "What Effects Does Exercise Have on You?"
- 2007 Host Students from Ben Franklin High School, New Orleans, LA for Tour of Research Laboratory
- 03/2008 Conduct Sixth Grade Science Class (24 students) at St. Benilde Elementary School, Metairie, LA for the APS Physiology Fun Week (PhUn Week) Entitled "Food Labels/Nutrition"
- 11/2008 Conduct Fourth Grade Science Class (50 students) at Banneker Benjamin Elementary School, New Orleans for the APS Physiology Fun Week (PhUn Week) Entitled "Nutrition"
- 02/2009 Science Fair Judge at St. Benilde Elementary School, Metairie, LA
- 04/2009 Undergraduate Poster Presentation Judge for David Bruce Award at Experimental Biology Meeting, New Orleans, LA
- 04/2009 Shadow-a-Scientist K-12 Outreach Held at LSUHSC for 10<sup>th</sup> Grade High School Students
- 02/2010 Science Fair Judge at St. Benilde Elementary School, Metairie, LA
- 04/2010 Undergraduate Poster Presentation Judge for David Bruce Award at Experimental Biology Meeting, New Orleans, LA
- 11/2010 Conduct Fourth Grade Science Class (50 students) at St. Catherine of Siena Elementary School, Metairie, LA for the APS Physiology Fun Week (PhUn Week) Entitled "Activity Title: Blood Vessels, Subject Matter: Circulatory System"
- 02/2011 Science Fair Judge at St. Benilde Elementary School, Metairie, LA
- 11/2011 Conduct Sixth & Seventh Grade Science Class (50 students) at St. Benilde Elementary School, Metairie, LA for the APS Physiology PhUn Week Entitled "The Scientific Method"
- 01/2012 Science Fair Judge at St. Benilde Elementary School, Metairie, LA

03/2012 Career Day Seminar at Archbishop Chapelle High School, Metairie, LA  
 10/2012 College of Sciences Career Seminar at University of New Orleans, LA  
 01/2013 Science Fair Judge at St. Benilde Elementary School, Metairie, LA

## WORKSHOP PRESENTATIONS

07/2004 Tulane University Health Sciences Center, Renal and Vascular Workshop  
 "Functional Localization of AT1 Receptor Subtypes in the Renal Microvasculature"

09/2008 Department of Physiology, LSUHSC, New Orleans, LA Work-In-Progress:  
 "AT1 Receptors in Renal Microvascular Physiology: Resubmission of NIH R01 Grant "

09/2008 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Specific Aims for Resubmission of NIH R01 Grant"

03/2009 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "New Strategies for Experimentation"

05/2009 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Manuscript Submission: Major role for angiotensin converting enzyme-independent intrarenal Ang II formation in type II diabetes"

10/2009 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "New Preliminary Studies for A2 NIH Application"

01/2010 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Resubmission of the A2 NIH Application"

04/2010 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Role of ACE-dependent and ACE-independent pathways in diabetic renal disease"

07/2010 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Manuscript in Preparation: Glomerular filtration rate determinations in conscious type II diabetic mice"

09/2010 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "New R01 grant submission: targeting chymase in diabetic nephropathy"

09/2011 LSUHSC COBRE Work-In-Progress: "New approaches for slowing the progression of diabetic renal disease"

03/2012 LSUHSC COBRE Work-In-Progress: "New approaches for slowing the progression of diabetic renal disease"

05/2012 LSUHSC COBRE Work-In-Progress: "New approaches for slowing the progression of diabetic renal disease"

10/2012 LSUHSC COBRE Work-In-Progress: "New approaches for slowing the progression of diabetic renal disease"

11/2012 Tulane University Health Sciences Center Nephrology Transport Group: "Novel renal tubular expression of chymase: proteolytic activation of ENaC"

01/2013 Department of Physiology, LSUHSC, New Orleans, LA Research Development:  
 Work-In-Progress: "Role of enhanced renal tubular chymase in the activation of the ENaC in diabetes: unpublished data"

## FEATURED NEWSPAPER ARTICLES

2002 New Orleans City Business. November 4, 2002. "Tulane Scores" Cover article and photograph regarding COBRE grant

2002 News from Tulane University Health Sciences Center. 2(4), Autumn 2002. Listed among "Other Recent Grants of \$1 Million or More"

- 2002 Tulane Xavier Leadership Core Newsletter. Listed among "Achievements of Women Faculty in Science and Medicine"
- 2003 Inside Tulane. 22(6), January 1, 2003. Cover article, interview and photograph regarding funding of the COBRE grant

## TRAINEES

### ***Louisiana University Health Sciences Center***

- 2004 Samantha Torres (Undergraduate Student), University of New Mexico; APS NIDDK Minority Travel Fellowship Mentor; Experimental Biology Meeting
- 2004 John D'Hemecourt, MD/PhD Laboratory Rotation, Department of Physiology, LSUHSC
- 2005 - 2007 Paige Katz, Interdisciplinary Graduate Student Laboratory Rotation and Member of Dissertation Committee, Department of Physiology, LSUHSC
- 2005 - 2008 Sungmi Park, Graduate Student Dissertation Advisor, Department of Physiology, LSUHSC, Diploma December 2008 "Renin-Angiotensin System in Type II Diabetic Renal Disease"
- 2005 Amy Courville, Member of Masters Thesis Committee, Department of Physiology, LSUHSC
- 2005 Irfan Ali, Member of Qualifying Examination Committee, Department of Physiology, LSUHSC
- 2006 Mesia Moore Steed (Graduate Student), University of Louisville; APS NIDDK Minority Travel Fellowship Mentor; Experimental Biology Meeting
- 2006 - 2007 Petra Rocic, PhD, Assistant Professor of Department of Physiology, Mentor for COBRE Junior Investigator, Title of Project "Cell-Specific ROS Involvement in the Regulation of Coronary Collateral Growth"
- 2006 - 2009 Eric Lazartigues, PhD, Assistant Professor of Department of Pharmacology, Mentor for COBRE Junior Investigator, Title of Project "Brain-Targeted ACE2 Overexpression and Blood Pressure Regulation"
- 2007 Chandrasekar Viswanathan, Member of Masters Thesis Committee, Department of Physiology, LSUHSC
- 2007 Ashley Feske, Interdisciplinary Graduate Student Laboratory Rotation
- 2007 - 2008 Souad Belmadani, PhD; Postdoctoral Fellow
- 2007 - 2009 Sharell M Bindom, Member of Dissertation Committee for Department of Pharmacology & Experimental Therapeutics, LSUHSC, Diploma May 2009
- 2008 Jessica Bradley, Interdisciplinary Graduate Student Laboratory Rotation
- 2009 Carmen Troncoso Brindeiro, Graduate Student, University of Nebraska Medical Center; APS NIDDK Minority Travel Fellowship Mentor; Experimental Biology Meeting
- 2009 - 2012 Annie Whitaker, Member of Dissertation Committee for Department of Physiology, LSUHSC
- 2009 - 2011 Jerome W. Breslin, PhD, Assistant Professor of Department of Physiology, Mentor for COBRE Junior Investigator, Title of Project: Microvascular Leak during Combined Alcohol Intoxication and Hemorrhagic Shock
- 2010 Andrea Caballero, Medical Student Laboratory Rotation
- 2010 Sen Xu, Tulane Undergraduate, APS Undergraduate Summer Research Fellowship
- 2010 - 2013 Kavaljit H. Chhabra, Member of Dissertation Committee for Department of Pharmacology, LSUHSC
- 2010 - 2012 Kristine M. Kurtz, Member of Dissertation Committee for Department of Physiology, LSUHSC
- 2011 Elaine C. Maggi, Interdisciplinary Graduate Student Laboratory Rotation
- 2011 Stephen M. Ford, Jr, MD/PhD Student Laboratory Rotation



2011 - 2013 Melissa D Scroggin, Member of Thesis Committee for Department of Pharmacology, LSUHSC

2011 - Present Travis M. Doggett, Member of Dissertation Committee for Department of Physiology, LSUHSC

2011 - Present Mahmoud Kallash, MD, Pediatric Nephrology Fellow, LSUHSC

2011 - 2013 Jason D. Gardner, PhD, Assistant Professor of Department of Physiology, Mentor for COBRE Junior Investigator, Title of Project: Role of Lysyl Oxidase in Pressure Overload Induced Cardiac Dysfunction

2011 Daisuke Inui, MD, PhD, Postdoctoral Fellow, Tulane University School of Medicine, New Orleans, LA

2011 - 2013 Kirsten A Wood, Loyola University, New Orleans, LA, APS Undergraduate Summer Research Fellowship

2012 Xun Zhang, Physiology Graduate Student Laboratory Rotation

2012 - Present Stephen M. Ford, Jr, MD/PhD Graduate Student Dissertation Advisor, Department of Physiology, LSUHSC

2012 - Present Zohreh Soltani, MD, Clinical Assistant Professor, Dept of Medicine-Nephrology, Mentor for COBRE Junior Investigator, Title of Project: Effect of Febuxostat on Progression of Renal Disease in Metabolic Syndrome

2012- Present Flavia M Souza-Smith, PhD, Instructor of Department of Physiology, Mentor

2012 - Present Yumei Feng, MD, PhD, Assistant Professor of Department of Physiology, Tulane University Health Sciences Center, Mentor

2013 Alan Mouton, Physiology Graduate Student Laboratory Rotation

***Tulane University Health Sciences Center***

1997 - 2001 Matthew Walker, III; Physiology Graduate Student Co-Advisor with L.G. Navar; Title: *Dynamic Modulatory Interaction Between Myogenic and Tubuloglomerular Feedback Mechanisms in the Autoregulation of Renal Blood Flow*; Postdoctoral Fellow at MIT; Currently Senior Research Scientist in the Department of Cardiovascular Pharmacology at Merck Research Laboratories

1998 - 1999 Daniel F. Albert; Senior Thesis Project for Tulane University Biomedical Engineering

1999 - 2002 Hiroyuki Kobori, M.D., Ph.D.; Postdoctoral Fellow (Co-Advisor with L.G. Navar); Currently Associate Professor, Department of Physiology, Tulane University Health Sciences Center

2000 Ollie Kelly Appleberry (Graduate Student), Emory University; APS NIDDK Minority Travel Fellowship Mentor; 2000 Experimental Biology Meeting

2001 Hantz C. Hercule (Postdoctoral Fellow); Texas Southern University; APS NIDDK Minority Travel Fellowship Mentor; 2001 Experimental Biology Meeting

2001 - 2004 Minolfa Prieto-Carrasquero, M.D.; Graduate Student Dissertation Committee (Mentor L.G. Navar) Title: *Distal Tubular Renin Expression in Angiotensin II Dependent Hypertension*; Associate Professor of the Department of Physiology, Tulane University Health Sciences Center

2001 Torrance Green; Graduate Student Laboratory Rotation

2001 - 2010 Torrance Green; Graduate Student Dissertation Committee (Mentor L.G. Navar), Currently Postdoctoral Fellow Department of Physiology, Tulane University Health Sciences Center

2003 Justin Westervelt; Tulane Medical Student; AHA Summer Research Fellow



## TRAINING AND GRANT WRITING WORKSHOPS ATTENDED

### **Louisiana University Health Sciences Center**

- 2004 Professional Development Workshop Presented by the LSUHSC Academy for the Advancement of Educational Scholarship
- 2004 Teaching Excellence Workshop Series Presented by the LSUHSC Academy for the Advancement of Educational Scholarship "Teaching in Large Groups and Lectures"
- 2005 Teaching Excellence Workshop Series Presented by the LSUHSC Academy for the Advancement of Educational Scholarship "Designing Effective Courses and Instruction"

### **Tulane University Health Sciences Center**

- 2001 Grantsmanship - Preparing a Successful Application Presented by Dr. Israel Goldberg of Health Research Associates
- 2002 A Workshop on Grant Writing and Grantsmanship Presented by Faculty of the NIH Advanced Research Cooperation in Health (ARCH)
- 2003 A Workshop on Grant Writing and Grantsmanship Presented by Faculty of the NIH Advanced Research Cooperation in Health (ARCH)

## TEACHING AWARDS

### **Louisiana University Health Sciences Center**

- 2012 Nominated for Aesculapian Award by 1<sup>st</sup> year Medical Students

## TEACHING EXPERIENCE

### **Louisiana University Health Sciences Center**

- 2004 *GCRC's Methods in Clinical Research: Lecture* (~15 students)  
How to Become a Recipient of a Research Grant - 1 lecture 60 min  
*Medical Physiology 100: Lecture*  
First Year Medical Students; Spring Semester (1hr; ~210 students)  
Renal Hormones, Regulation of Extracellular Volume and Hypertension  
*Medical Physiology 100: Laboratory*  
First Year Medical Students; Spring Semester  
Cardiovascular Dog Lab; Control of Respiration and Circulation in the Dog
- 2004, 2005, 2007 *USLME, Step 1 Review for Renal Physiology*  
Second Year Medical Students (2hr; ~20 students)
- 2005 *Graduate Physiology - Cardiovascular Physiology 212*  
Regulation of Renal Blood Flow (2 hr; ~ 10 students)
- 2005 *Medical Physiology 100: Lecture*  
First Year Medical Students; Spring Semester (8hr; ~210 students)  
Renal Physiology Block  
*Medical Physiology 100: Dog Laboratory*  
First Year Medical Students; Spring Semester (40hr; ~180 students)  
ECG and Cardiac Function; Respiration and Circulation  
*Graduate Student Physiology 207: Conference*  
First Year Graduate Students; Spring Semester (2hr; 5 students)  
Renal Physiology Research Tools - Past and Present  
*GCRC's Methods in Clinical Research: Lecture* (~15 students)  
How to Become a Recipient of a Research Grant - 1 lecture 60 min

- 2006 *Graduate Student Integrative Sciences: Biological Systems - Renal Physiology*  
 First Year Graduate Students; Spring Semester (5 hr; ~ 20 students)  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (10hr; ~210 students)  
 Renal Physiology Block  
*Graduate Student Physiology Special Topics: Trends and Highlights in Physiology*  
 Graduate Students; Summer Semester (2hr; 3 students)  
 Recent Advances in the Regulation of Nitric Oxide in the Kidney  
*Graduate Student Integrative Sciences: Biological Systems - Renal Physiology*  
 First Year Graduate Students; Fall Semester (5 hr; ~ 30 students)
- 2007 *Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (10 hr; ~210 students)  
 Renal Physiology Block  
*Graduate Student Physiology Special Topics: Trends and Highlights in Physiology*, Course Director; Graduate Students; Summer Semester  
*Graduate Student Integrative Sciences: Biological Systems - Renal Physiology*  
 First Year Graduate Students; Fall Semester (5 hr; ~ 20 students)
- 2008 *Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; ~200 students)  
 Renal Physiology Block  
*Graduate Student Integrative Sciences: Biological Systems - Renal Physiology*  
 First Year Graduate Students; Fall Semester (5 hr; ~ 50 students)  
*Cardiopulmonary Physiology CPSC 3220 – Renal Physiology*; Summer Semester (4 hr; ~ 30 students)  
*Nephrology Fellows – Overview of Renal Physiology*; Summer (6 hr; ~12 students)  
*Graduate Physiology - Cardiovascular Physiology 212*  
 Regulation of Renal Blood Flow (2 hr; ~ 6 students)
- 2009 *Dental Hygiene General and Oral Physiology DHY 3202 – Course Director*;  
 Spring (32 hr; 42 students) – Lectures for Cardiovascular Physiology – 2 hr and Renal Physiology – 2hr  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; ~200 students)  
 Renal Physiology Block  
*Cardiopulmonary Physiology CPSC 3220 – Renal Physiology*; Summer Semester (4 hr; ~ 30 students)  
*Nephrology Fellows – Overview of Renal Physiology*; Summer (3 hr; ~12 students)  
*Graduate Student Integrative Sciences: Biological Systems - Renal Physiology*  
 First Year Graduate Students; Fall Semester (5 hr; ~ 50 students)  
*Graduate Physiology Course: Endocrine Physiology*; Fall Semester (2 hr; 6 students) Endocrinology of Hypertension
- 2010 *Dental Hygiene General and Oral Physiology DHY 3202 – Course Director*;  
 Spring (32 hr; 41 students) – Lectures for Homeostasis – 1 hr and Renal Physiology – 3 hr  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; 200 students)  
 Renal Physiology Block  
*Workshop for Undergraduate and High School Summer Research Fellows – Workshop Director*; Summer Semester (8 students)

- Cardiopulmonary Physiology CPSC 3220* – Renal Physiology; Summer Semester (4 hr; 30 students)  
*Nephrology Fellows* – Overview of Renal Physiology; Summer (6 hr; 12 students)  
*Physiology Seminar Series* – Course Director  
*Graduate Student Integrative Sciences: Biological Systems* - Renal Physiology First Year Graduate and DPT Students; Fall Semester (5 hr; 50 students)
- 2011
- Dental Hygiene General and Oral Physiology DHY 3202* – Course Director; Spring (32 hr; 34 students) – Lectures for Homeostasis – 1 hr  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; 200 students)  
 Renal Physiology Block  
*Cardiopulmonary Physiology CPSC 3220* – Renal Physiology; Summer Semester (4 hr; 30 students)  
*Nephrology Fellows* – Overview of Renal Physiology; Summer (6 hr; 12 students)  
*Physiology Seminar Series* – Course Director  
*Graduate Student Integrative Sciences: Biological Systems* - Renal Physiology – Section Director, First Year Graduate and DPT Students; Fall Semester (5 hr; 50 students)
- 2012
- Dental Hygiene General and Oral Physiology DHY 3202* – Course Director; Spring (32 hr; 40 students) – Lecture for Homeostasis – 1 hr  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; 200 students)  
 Renal Physiology Block  
*Physiology Seminar Series* – Course Director  
*Graduate Student Special Topics in Physiology PHYSIO 280* – Renal and Vascular Physiology - Course Director; Fall (30 hrs) cancelled  
*Graduate Student Integrative Sciences: Biological Systems* - Renal Physiology – Section Director, First Year Graduate and DPT Students; Fall Semester (6 hr; 50 students)
- 2013
- Dental Hygiene General and Oral Physiology DHY 3202* – Course Director; Spring (32 hr; 38 students) – Lecture for Homeostasis – 1 hr; Cardiovascular – 1hr; Renal – 1 hr  
*Medical Physiology 100: Lecture*  
 First Year Medical Students; Spring Semester (12 hr; 200 students)  
 Renal Physiology Block  
*Graduate Student Special Topics in Physiology PHYSIO 280* – Renal and Vascular Physiology - Course Director; Fall (30 hrs)  
*Graduate Student Integrative Sciences: Biological Systems* - Renal Physiology – Section Director, First Year Graduate and DPT Students; Fall Semester (5 hr; 50 students)
- Tulane University Health Sciences Center and Tulane University**  
 1995 *Graduate Physiology: Renal Physiology*  
 History of Physiology & Anatomy 1995  
 1986 - 1995 *Medical Physiology: Laboratory*  
 Spring Semester  
 Cardiovascular Physiology - Anesthetized Dog Experiments (4 hrs)  
 Renal Physiology - Anesthetized Dog Experiments (4 hrs)  
 Cardiovascular Physiology - Blood Pressure Monitoring and Exercise in Humans (2 hrs)

- 1993 - 2003  
 Respiratory Physiology - Spirometry in Humans (2 hrs)  
 Endocrine Physiology - Radioimmunoassay (2 hrs)  
*Medical Physiology: Laboratory*  
 Problem Based Learning Exercises: Body Fluids, Cardiovascular, Renal, Acid/Base, Respiratory, Gastrointestinal, Endocrine (2 hrs each; 10 students/group)
- 1994 - 2003  
*Medical Physiology: Lecture*  
 Summer Series (~20 students)  
 Renal Physiology Series - 6 lectures, 60 min each.  
 Renal Hemodynamics, Regulation of Renal Blood Flow, Glomerular Filtration Rate, Clearance Problems, Renal Hormones, Hypertension
- 1999 - 2003  
*Introduction to Medical Science for Engineers BMEN 304 - Lecture*  
 Spring Semester (~40 students)  
 Renal Physiology Series - 7 lectures, 75 min each  
 Basic Principles of Renal Physiology, Basic Renal Processes, Basic Renal Processes, Concept of Renal Clearance, Regulation of Sodium Balance Regulation of Water Balance, Regulation of Potassium and Calcium Balance, Hydrogen Ion Regulation and Diuretics
- 1999 - 2003  
*Introduction to Medical Science for Engineers BMEN 314 - Laboratory*  
 Spring Semester (~50 students)  
 Renal Physiology - 3 laboratory sessions, 3 hrs each  
 Clearance Problem Set, Problem Based Learning - Mr. R.A. Klamps and QCP - Renal Artery Stenosis, Regulation of Water, Electrolytes and pH in Human Kidneys
- 2002 - 2003  
*Experimental Physiology Laboratory*  
 Spring Semester (~10 students; medical and graduate), 4 hrs  
 Regulation of Water, Electrolytes and pH in Human Kidneys
- 2002 - 2003  
*Medical Physiology: Lecture*  
 Summer Series (~20 students)  
 Cardiovascular Hemodynamics - 2 lectures, 60 min each  
 Arterial and Venous System, Lymphatics
- 2003 - 2003  
*Medical Physiology: Lecture*  
 Spring Series (~170 students)  
 Cardiovascular Hemodynamics - 3 lectures, 60 min each  
 Arterial and Venous System, Microcirculation, Lymphatics
- 2003  
*GCRC's Methods in Clinical Research: Lecture* (~15 students)  
 How to Become a Recipient of a Research Grant - 1 lecture 60 min

## RESEARCH INTERESTS

Renal Physiology; ACE-Independent Pathways for Angiotensin II Formation; Role of Chymase in Diabetic Renal Disease Progression; Role of Chymase in Epithelial Sodium Channel Activation in Diabetes; Renal Microvasculature – Afferent and Efferent Arteriolar Function; Renal Renin-Angiotensin System; Renin-Angiotensin System in Type II Diabetic Renal Disease: Effects on Renal Microvascular Function; Importance of Renal ACE/ACE2 Interactions in Angiotensin II Levels; Interaction of Angiotensin II and Nitric Oxide in Renal Microvascular Function; Angiotensin II Regulation of the Renal Microcirculation; Mechanisms of Renal Blood Flow Autoregulation; Role of the Renin-Angiotensin System in Blood Pressure Regulation; Angiotensin Receptor Regulation; Bradykinin Receptor Regulation of Kidney Development and Blood Pressure Regulation

## PUBLICATIONS

### INVITED REVIEWS OR CHAPTERS

1. Navar LG, Inscho EW, **Harrison-Bernard LM**, Takenaka T. Paracrine interactions regulating renal microcirculatory function. *Clin Investig* 72(9):682-684, 1994. PMID:7849446
2. El-Dahr SS, **Harrison-Bernard LM**, Gomez RA, Navar LG. Molecular Biology of Renal System. In: *The Encyclopedia of Molecular Biology: Fundamentals and Applications* 264-274, 1996
3. Navar LG, Inscho EW, Majid DSA, Imig JD, **Harrison-Bernard LM**, Mitchell KD. Paracrine regulation of the renal microcirculation. *Physiological Reviews* 76 (2):425-536, 1996. (>504 Citations) PMID:8618962
4. Navar LG, **Harrison-Bernard LM**, Imig JD. Compartmentalization of intrarenal angiotensin II. In: *Renin-Angiotensin*, Edited by H.R. Ulfendahl and M. Aurell. London: Portland Press, 1998, p. 193-208
5. Navar LG, **Harrison-Bernard LM**, Wang CT, Cervenka L, Mitchell KD. Concentrations and actions of intraluminal angiotensin II. *J Am Soc Nephrol* 10:S189-S195, 1999. PMID:9892162
6. Navar LG, **Harrison-Bernard LM**, Imig JD, Wang CT, Cervenka L, Mitchell KD. Intrarenal angiotensin II generation and renal effects of AT<sub>1</sub> receptor blockade. *J Am Soc Nephrol* 10:S266-S272, 1999. PMID:10201881
7. **Harrison-Bernard LM**, Raji L. Postmenopausal Hypertension. *Current Hypertension Reports* 2:202-207, 2000. PMID:10981150
8. Navar LG, **Harrison-Bernard LM**, Imig JD, Cervenka L, Mitchell KD. Renal responses to AT<sub>1</sub> receptor blockade. *Am J Hypertens* 13(1):45S-54S, 2000. PMID:10678288
9. Navar LG, **Harrison-Bernard LM**. Intrarenal angiotensin II augmentation in angiotensin II dependent hypertension. *Hypertens Res* 23:291-301, 2000. PMID:10912764
10. Navar LG, **Harrison-Bernard LM**, Imig JD, Mitchell KD. Renal actions of angiotensin II and AT<sub>1</sub> receptor blockers. Chapter 13 Angiotensin II Receptor Antagonists, edited by Murray Epstein and Hans Brunner, pg 189 - 214, 2001
11. Navar LG, Mitchell KD, **Harrison-Bernard LM**, Kobori H, Nishiyama A. Intrarenal angiotensin II levels in normal and hypertensive states. *J Renin-Angiotensin-Aldosterone Syst* 2 (1):S176-S184, 2001. PMID:19644566
12. Navar LG, **Harrison-Bernard LM**, Nishiyama A, Kobori H. Regulation of intrarenal angiotensin II in hypertension. *Hypertension* 39(2): 316-322, 2002. (>183 Citations) PMID:11882566
13. **Harrison-Bernard LM**. Targeting of the renin-angiotensin system as an adjunct to estrogen replacement therapy. *Editorial Commentary for Hypertension*, 44:390-391, 2004. PMID:15337737
14. **Harrison-Bernard LM**. The renal renin-angiotensin system. *Advan Physiol Edu* 33(4):270-274, 2009. PMID:19948673



15. **Harrison-Bernard LM**. Trapping intracellular ANG II to the proximal tubule: Powerful *in vivo* effects on sodium handling and blood pressure. *Editorial Focus for Am J Physiol Renal Physiol* 300(5):F1074-F1075, 2011. PMID:21367912
16. Kobori H, **Harrison-Bernard LM**, Navar LG. Role of activated renin-angiotensin system in the pathogenesis of diabetic nephropathy. "Advances in the pathogenesis of diabetic nephropathy" NovaScience Publishers, New York. Sharma S Prabhakar, MD (Editor) 161-197, 2012
17. **Harrison-Bernard LM**, Chappell MC. Unraveling the glomerular RAS - one peptidase at a time. *Am J Physiol Renal Physiol*; 303 (3):F373-F374, 2012. PMID: 22573374
18. Beierwaltes WH, **Harrison-Bernard LM**, Sullivan JC, Mattson DL. Assessment of renal function; clearance, the renal microcirculation, renal blood flow, and metabolic balance. *Comprehensive Physiology. Renal Physiology*. Editors: DM Pollock and J Garvin. *Compr Physiol* 3:165-200, 2013
19. Kobori H, Kamiyama M, **Harrison-Bernard LM**, Navar LG. Cardinal role of the activated intrarenal renin-angiotensin system in the pathogenesis of diabetic nephropathy. *J Investig Med* 61(2):256-264, 2013. PMID: 23266706
20. Herrera M, Sparks MA, Coffman TM, Pecchio ARA, **Harrison-Bernard LM**. Letter to the Editor Response to lack of specificity of commercial antibodies leads to misidentification of angiotensin type 1 receptor (AT<sub>1</sub>R) protein. *Hypertension* 61(4):e32, 2013. PMID: 23607135

#### ORIGINAL COMMUNICATIONS

21. Walker BR, Brizzee BL, **Harrison-Bernard LM**. Potentiated vasoconstrictor response to vasopressin following meclofenamate in conscious rats. *Proc Soc Exp Biol Med* 187:157-164, 1988. PMID:3340625
22. Brizzee BL, **Harrison-Bernard L**, Pretus HA, Clifton GG, Walker BR. Hemodynamic responses to vasopressinergic antagonism in water-deprived conscious rats. *Am J Physiol* 255 (*Regulatory Integrative Comp Physiol* 24):R46-R51, 1988. PMID:3394844
23. Barbee RW, **Harrison-Bernard LM**, Zimmerman RS, Trippodo NC, Frohlich ED. Sympathectomy fails to reveal prominent vasodilation by atrial natriuretic factor. *Hypertension* 15(2):888-893, 1990. PMID:2141004
24. **Harrison-Bernard LM**, Brizzee BL, Clifton GG, Walker BR. Renal versus hindquarter hemodynamic responses to vasopressin in conscious rats. *J Card Pharm* 16:719-726, 1990. PMID:1703592
25. **Harrison-Bernard LM**, Vari RC, Holleman WH, Trippodo NC, Barbee RW. Chronic vs. acute hemodynamic effects of atrial natriuretic factor in conscious rats. *Am J Physiol* 260 (*Regulatory Integrative Comp Physiol* 29):R247-R254, 1991. PMID:1825157
26. Barbee RW, **Harrison-Bernard LM**, Carmines PK. Microvascular effects of atrial natriuretic peptide in rat cremaster. *Peptides* 13:1181-1185, 1992. PMID:1494499



27. **Harrison-Bernard LM**, Carmines PK. Juxtamedullary microvascular responses to arginine vasopressin in rat kidney. *Am J Physiol* 267 (*Renal Fluid & Electrolyte Physiol.* 36):F249-F256, 1994. PMID:8067385
28. Takenaka T, **Harrison-Bernard LM**, Inscho EW, Carmines PK, Navar LG. Autoregulation of afferent arteriolar blood flow in juxtamedullary nephrons. *Am J Physiol* 267 (*Renal Fluid & Electrolyte Physiol.* 36):F879-F887, 1994. (>71 Citations) PMID:7977792
29. **Harrison-Bernard LM**, Carmines PK. Impact of cyclo-oxygenase blockade on juxtamedullary microvascular responses to angiotensin II in rat kidney. *Clin Exp Pharmacol Physiol* 22:732-738, 1995. PMID:8575109
30. **Harrison-Bernard LM**, Navar LG. Renal cortical and medullary microvascular blood flow autoregulation in rat. *Kidney Int* 50:S-23-S-29, 1996. PMID:8941918
31. **Harrison-Bernard LM**, Navar LG, Ho MM, Vinson GP, El-Dahr SS. Immunohistochemical localization of ANG II AT<sub>1</sub> receptor in the adult rat kidney using a monoclonal antibody. *Am J Physiol* 273(1 Pt 2) (*Renal Fluid & Electrolyte Physiol.* 42):F170-177, 1997. (>180 Citations) PMID:9249605
32. **Harrison-Bernard LM**, El-Dahr SS, O'Leary DF, Navar LG. Regulation of angiotensin II type 1 receptor mRNA and protein in angiotensin II-induced hypertension. *Hypertension* 33:340-346, 1999. PMID:9931127
33. Cervenka L, **Harrison-Bernard LM**, Dipp S, Primrose G, Imig JD, El-Dahr SS. Early onset salt-sensitive hypertension in bradykinin B<sub>2</sub> receptor null mice. *Hypertension* 34(2):176-180, 1999. PMID:10454437
34. El-Dahr SS, **Harrison-Bernard LM**, Dipp S, Yosipiv IV, Meleg-Smith S. Bradykinin B2 null mice are prone to renal dysplasia: gene-environment interactions in kidney development. *Physiological Genomics* 3(3):121-131, 2000. PMID:11015607
35. Walker M III, **Harrison-Bernard LM**, Cook AK, Navar LG. Dynamic interaction between myogenic and TGF mechanisms in afferent arteriolar blood flow autoregulation. *Am J Physiol. Renal Physiol* 279(5):F858-F865, 2000. PMID:11053046
36. Kobori H, **Harrison-Bernard LM**, Navar LG. Expression of angiotensinogen mRNA and protein in angiotensin II-dependent hypertension. *J Am Soc Nephrol* 12(3):431-439, 2001. (>108 citations). PMID:11181790
37. Kobori H, **Harrison-Bernard LM**, Navar LG. Enhancement of angiotensinogen expression in angiotensin II-dependent hypertension. *Hypertension* 37(5):1329-1335, 2001. (>85 citations). PMID:11358949
38. **Harrison-Bernard LM**, Zhuo J, Kobori H, Ohishi H, Navar LG. Intrarenal AT<sub>1</sub> receptor and ACE binding in ANG II-induced hypertensive rats. *Am J Physiol Renal Physiol* 282(1):F19-F25, 2002. PMID:11739108
39. Kobori H, **Harrison-Bernard LM**, Navar LG. Urinary excretion of angiotensinogen reflects intrarenal angiotensinogen production. *Kidney Int* 61(2):579-585, 2002. (>62 citations) PMID:11849399

40. **Harrison-Bernard LM**, Imig JD, Carmines PK. Renal AT<sub>1</sub> receptor protein expression during the early stage of diabetes mellitus. *J Exp Diabetes Res* 3(2):97-108, 2002. Front and Back Covers of the April-June Journal Issue Displays our 7 Panel Color Figure of Angiotensin Receptor Immunolocalization in the Kidney of Diabetic and Normal Rats. PMID:11991202
41. **Harrison-Bernard LM**, Cook AK, Oliverio MI, Coffman TM. Renal segmental microvascular responses to ANG II in AT<sub>1A</sub> receptor null mice. *Am J Physiol Renal Physiol* 284(3):538-545, 2003. PMID:12429556
42. Kobori H, Nishiyama A, **Harrison-Bernard LM**, Navar LG. Urinary angiotensinogen as an indicator of intrarenal angiotensin status in hypertension. *Hypertension* 41(1):42-49, 2003. PMID:12511528
43. **Harrison-Bernard LM**, Dipp S, El-Dahr SS. Renal and blood pressure phenotype in 18 mo-old bradykinin B2R(-/-)CRD mice. *Am J Physiol (Reg Integr Comp Physiology)* 285(4):R782-R790, 2003. PMID:12805091
44. **Harrison-Bernard LM**, Hernadez Schulman I, Raji L. Postovariectomy hypertension is linked to increased renal AT<sub>1</sub> receptor and salt-sensitivity. *Hypertension* 42(6):1157-1163, 2003. PMID:14610098 (>67 citations)
45. Prieto-Carrasquero M., **Harrison-Bernard LM**, Kobori H, Owaza Y, Hering-Smith K, Hamm LL, Navar LG. Enhancement of collecting duct renin in angiotensin II-dependent hypertensive rats. *Hypertension* 44(2):223-229, 2004. (>71 citations) PMID:15226276
46. **Harrison-Bernard LM**, Monjure CJ, Bivona BJ. Efferent arterioles exclusively express the subtype 1A angiotensin receptor: Functional insights from genetic mouse model. *Am J Physiol Renal Physiol* 290(5):F1177-F1186, 2006. PMID:16332932
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Updated 06/04/13