

Lisa M. Harrison-Bernard, PhD, FAHA, FASN
CURRICULUM VITAE

PROFESSIONAL INFORMATION

Office Address: Associate Professor
Louisiana State University Health Sciences Center
School of Medicine in New Orleans
Department of Physiology, Box P7-3, Rm 7213
1901 Perdido Street
New Orleans, Louisiana 70112-1393

Direct Office Phone: (504) 568-6175
Main Office Phone: (504) 568-6171
Main Office Fax: (504) 568-6158
E-mail: lharris@lsuhsc.edu



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

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| 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

Funded Extensions and/or One-Time Administrative Supplements to Grants Located in New Orleans Affected by Hurricane Katrina. National Institute of Diabetes and Digestive and Kidney Diseases. 1 R01 DK62003-05. AT₁ Receptors in Renal Microvascular Physiology. Principal Investigator 50% Effort. Direct Support \$153,555; Total Support \$218,048. Total Project Period: 06/01/07 through 05/31/08

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: 07/01/08-06/30/13. 10% Effort 07/01/0 - 6/30/13. Role - Junior Investigator Mentor for Eric Lazartigues, PhD

American Heart Association Southeast Affiliate Predoctoral Grant 0715445B. Role of angiotensin type 1 receptor in renal vascular function and structure. Principal Investigator - Sungmi Park. Total Support \$38,000. Total Project Period: 07/01/07 - 6/30/09. Role: Mentor

PENDING GRANT SUPPORT

National Institute of Diabetes and Digestive and Kidney Diseases. 1 R01 DK62003-07. AT₁ Receptors in Renal Microvascular Physiology. Principal Investigator 40% Effort. Direct Support \$1,250,000; Total Support \$1,775,000. Total Project Period: 06/01/08 through 05/31/13

American Heart Association Grant-in-Aid. Principal Investigator: Lisa M Harrison-Bernard, PhD. Title: ACE-Independent Pathways in Diabetic Renal Vascular Disease. Funding Period: July 1, 2009 – June 30, 2011. Support: \$165,000.00.

PREVIOUS GRANT SUPPORT AS A PRINCIPAL INVESTIGATOR

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| 1987 - 1988 | Graduate Student Research Aid American Heart Association - Louisiana, Inc. "Regional Blood Flow Responses to Vasopressin" |
| 1991 - 1993 | Hoffmann La Roche/National Kidney Foundation Fellowship. "Vasa Recta Control of Renal Medullary Microcirculation" Total Direct Costs \$42,000. |
| 1994 - 1997 | NIH-NIDDK Individual National Research Service Award (NRSA). "Differential Control of Renal Cortical and Medullary Blood Flow". 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". Total Direct Costs \$25,000. |

- 1996 - 1997 American Heart Association, LA Affiliate, Inc. Research Grant-in-Aid Beginning. "Renal AT₁ Receptor Regulation in Angiotensin II - Induced Hypertension". 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" 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". Total Direct Costs \$25,000.
- 1999 - 2002 National American Heart Association - Scientific Development Grant: 9930120N. "Functional and Molecular Correlates of Angiotensin II Dependent Hypertension". Total Support \$260,000.

HONORS AND AWARDS

- 1980 - 1982 T.H. Harris Scholarship
- 1984 Academic Achievement Award in Biological Science
- 1985 - 1990 Tulane University Graduate School Tuition Scholarship
- 1985 - 1990 Supported by Institutional National Research Service Award
- 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 (3 wks) of Charlotte Hehlin Sorensen, PhD, Assistant Professor, University of Copenhagen, DENMARK
- 2008 Distinguished Graduate Award, Saint Benilde Elementary School, Metairie, LA

STUDY SECTION AND PEER REVIEW COMMITTEES

- 2001 NIDDK. RFA DK-01-016. Center of Excellence in Pediatric Nephrology. Scientific Review Administrator: Dan E. Matsumoto, Ph.D. Baltimore/Washington December 7, 2001
- 2002 Ad Hoc Reviewer for the Veterans Administration Research Fund
- 2004 Invited Pre-Review for the Veterans Administration Research Fund
- 2005 Selected as 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)
- 2008 American Heart Association Peer Review Committee R2-Cardiorenal: Chairperson: Michael W. Brands, PhD

JOURNAL EDITORIAL BOARD

- 2000 - Present Editorial Review Board Member of the *American Journal of Physiology: Heart & Circulatory Section*
- 2004 - 2007 Editorial Review Board Member of *Hypertension*

AD-HOC REVIEWER FOR SCIENTIFIC JOURNALS

American Journal of Physiology
Heart and Circulatory Physiology
Regulatory, Integrative and Comparative Physiology
Renal, Fluid & Electrolyte Physiology
Circulation Research
Hypertension
Journal of Hypertension
Journal of the American Society of Nephrology
Kidney International
Life Sciences
Peptides

PROFESSIONAL COMMITTEES

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| 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, Councillor |
| 2002 | Elected to Graduate Faculty of Tulane Medical School |
| 2003 - 2005 | Appointed to American Physiological Society, Membership Committee |
| 2003 - 2007 | 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 - 2008 | Appointed to Council for High Blood Pressure Research Membership Committee |
| 2008 - 2010 | Appointed to American Physiological Society, Education Committee |
| 2008 | Nominated for American Physiological Society, Councillor |

PROFESSIONAL SOCIETIES

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| 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 |
| 1993 - Present | American Society of Nephrology |
| 1999 - Present | International Society of Nephrology |
| 1993 - Present | Women in Nephrology |
| 1998 - Present | American Heart Association - Council for High Blood Pressure Research Fellow |
| 2004 - 2005 | American Society of Hypertension |

SESSION CHAIR OF SCIENTIFIC CONFERENCES

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| 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 Chair - 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

WORKSHOP ORGANIZING COMMITTEE

- 2002 Experimental Biology; Sponsored by Women in Physiology Committee - Symposium on 'How to be a Good Mentor/Mentee'

ABSTRACT REVIEWER FOR SCIENTIFIC CONFERENCES

- 1999 - 2001 Annual Review for Experimental Biology Carol tum Suden Award
- 2000 American Society of Nephrology; Vascular Physiology - Hemodynamics, Hypertension and Vascular Regulation
- 2002, 2003, 2004 Annual Review for American Heart Association; Endothelium and Vascular Tone, 2005, 2006, 2007 Cardiorenal Physiology and Pathophysiology
- 2008
- 2006 American Society of Nephrology Review Category Chair for Mediators, Signaling, Cell Growth, Apoptosis and Neoplasia: Hormones/Peptides/Growth Factors
- 2006, 2007, 2008 Annual Review for Council for High Blood Pressure Research Abstract Reviewer - Renin Angiotensin System

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
- 3/2008 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"

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_{1B} 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_{1A}, AT_{1B} and AT₂ 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”
- 3/2004 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”
- 5/2004 American Society of Hypertension, New York, NY. “Angiotensin II in the Regulation of the Renal Microvasculature: Lessons from Genetic Mouse Models”
- 6/2004 FASEB Summer Research Conference: Renal Microcirculatory and Tubular Dynamics: Molecules to Man, Pine Mountain, GA. “Angiotensin Receptor Function in the Renal Microcirculation”
- 4/2005 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”
- 4/2005 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”
- 9/2005 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.)
- 5/2006 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”
- 9/2006 Invitation by Johnny Porter, PhD, Department of Physiology, LSUHSC, New Orleans, LA “Diabetic Renal Vascular Dysfunction”
- 4/2007 Experimental Biology Meeting, Washington, DC. Physiology Understanding (PhUn) Week Training Session, “Effective Teaching Methods for High School Students”
- 9/2007 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”
- 3/2008 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”
- 3/2008 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”

- 3/2008 Department of Physiology, LSUHSC, New Orleans, LA "Renal Microvascular Responses Induced By ACE-Independent Generation Of Angiotensin II In Type II Diabetes"
- 4/2008 Experimental Biology Meeting, San Diego, CA. Physiology Understanding (PhUn) Week Training Session, "Food Labels/Nutrition Effective Teaching Methods for Elementary School Students"

WORKSHOP PRESENTATIONS

- 7/2004 Tulane University Health Sciences Center, Renal and Vascular Workshop "Functional Localization of AT1 Receptor Subtypes in the Renal Microvasculature"
- 9/2008 Department of Physiology, LSUHSC, New Orleans, LA "Work-In-Progress: AT1 Receptors in Renal Microvascular Physiology: Resubmission of NIH R01 Grant "
- 9/2008 Department of Physiology, LSUHSC, New Orleans, LA "Research Development: Work-In-Progress: Specific Aims for Resubmission of NIH R01 Grant"

FEATURE 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

INSTITUTIONAL RESPONSIBILITIES

Louisiana University Health Sciences Center

- 2006 - Institutional Biosafety Committee
- 2007 - 2010 Sabbatical Leave Committee

DEPARTMENTAL RESPONSIBILITIES

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 Burrough 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

Louisiana University Health Sciences Center

2004 - Present Elected to Graduate Faculty of LSUHSC
 2004 - Present Chairperson of the Directors of the Physiology Core Facilities
 2004 - Present Director of the Physiology Molecular Core Facility
 2004 - Present Member of Physiology Faculty Search Committee
 2008 – Present Departmental Seminar Series Coordinator

TRAINEES

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 Advisory Committee (Mentor L.G. Navar) Title: *Distal Tubular Renin Expression in Angiotensin II Dependent Hypertension*; Assistant Professor of the Department of Medicine of the University of Arizona
 2001 Torrance Green; Graduate Student Laboratory Rotation
 2001 - Present Torrance Green; Graduate Student Advisory Committee (Mentor L.G. Navar)
 2003 Justin Westervelt; Tulane Medical Student; AHA Summer Research Fellow

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 - Present Paige Katz, Graduate Student Laboratory Rotation and Member of Dissertation Committee, Department of Physiology, LSUHSC
 2005 - Present Sungmi Park, Graduate Student Dissertation Advisor, Department of Physiology, LSUHSC
 2005 Member of Masters Thesis Committee for Amy Courville, Department of Physiology, LSUHSC
 2005 Member of Qualifying Examination Committee for Irfan Ali, 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 Member of Masters Thesis Committee for Chandrasekar Viswanathan, Department of Physiology, LSUHSC

2007 Ashley Feske, Graduate Student Laboratory Rotation

2007-2009 Member of Dissertation Committee for Sharell M Bindom, Department of Pharmacology & Experimental Therapeutics, LSUHSC

2008 Jessica Bradley, Graduate Student Laboratory Rotation

TRAINEE AWARDS

2008 Sungmi Park: American Physiological Society Renal Section Pfizer Predoctoral Excellence in Renal Research Award Finalist

2008 Sungmi Park: Forest Pharmaceuticals New Investigator Travel Award for Jackson Cardiovascular-Renal Meeting

TRAINING AND GRANT WRITING WORKSHOPS ATTENDED

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)

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"

TEACHING EXPERIENCE

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)
 Respiratory Physiology - Spirometry in Humans (2 hrs)
 Endocrine Physiology - Radioimmunoassay (2 hrs)
- 1993 - 2003
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
- 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
- 2004
Medical Physiology 205: Lecture
 First Year Medical Students; Spring Semester (1hr; ~210 students)
 Renal Hormones, Regulation of Extracellular Volume and Hypertension
- 2004
GCRC's Methods in Clinical Research: Lecture (~15 students)
 How to Become a Recipient of a Research Grant - 1 lecture 60 min
- 2004, 2005, 2007
USLME, Step 1 Review for Renal Physiology
 Second Year Medical Students (2hr; ~20 students)
- 2004, 2008
Graduate Physiology - Cardiovascular Physiology

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| 2005 | Regulation of Renal Blood Flow (2 hr; ~ 10 students) <i>Medical Physiology 205: Lecture</i> First Year Medical Students; Spring Semester (8hr; ~210 students) Renal Physiology Block |
| 2005 | <i>Medical Physiology 206: Dog Laboratory</i> First Year Medical Students; Spring Semester (40hr; ~180 students) ECG and Cardiac Function; Respiration and Circulation |
| 2005 | <i>Graduate Student Physiology 207: Conference</i> First Year Graduate Students; Spring Semester (2hr; 5 students) Renal Physiology Research Tools - Past and Present |
| 2006 | <i>Graduate Student Integrative Sciences: Biological Systems - Renal Physiology</i> First Year Graduate Students; Spring Semester (5 hr; ~ 20 students) |
| 2006 | <i>Medical Physiology 205: Lecture</i> First Year Medical Students; Spring Semester (10hr; ~210 students) Renal Physiology Block |
| 2006 | <i>Graduate Student Physiology Special Topics: Trends and Highlights in Physiology</i> Graduate Students; Summer Semester (2hr; 3 students) Recent Advances in the Regulation of Nitric Oxide in the Kidney |
| 2006 | <i>Graduate Student Integrative Sciences: Biological Systems - Renal Physiology</i> First Year Graduate Students; Fall Semester (5 hr; ~ 30 students) |
| 2007 | <i>Medical Physiology 205: Lecture</i> First Year Medical Students; Spring Semester (10 hr; ~210 students) Renal Physiology Block |
| 2007 | <i>Graduate Student Physiology Special Topics: Trends and Highlights in Physiology</i> , Course Director; Graduate Students; Summer Semester |
| 2007 | <i>Graduate Student Integrative Sciences: Biological Systems - Renal Physiology</i> First Year Graduate Students; Spring Semester (5 hr; ~ 20 students) |
| 2008 | <i>Medical Physiology 205: Lecture</i> First Year Medical Students; Spring Semester (12 hr; ~200 students) Renal Physiology Block |
| 2008 | <i>Graduate Student Integrative Sciences: Biological Systems - Renal Physiology</i> First Year Graduate Students; Spring Semester (5 hr; ~ 50 students) |
| 2008 | <i>Cardiopulmonary Physiology CPSC 3220 – Renal Physiology</i> ; Summer Semester (4 hr; ~ 30 students) |
| 2008 | <i>Nephrology Fellows – Renal Physiology</i> ; Summer (6 hr; ~12 students) |
| 2009 | <i>Dental Hygiene Physiology – Course Director</i> ; Spring (30 hr; ~42 students) – Lecture for Renal Physiology – 2hr |

RESEARCH INTERESTS

Renin-Angiotensin System in Type II Diabetic Renal Disease: Effects on Microvascular Function, 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.
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.
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1. Prieto-Carrasquero MC, Somanno MK, Vellaichamy E, **Harrison-Bernard LM**, Navar LG, Pandey KN. Differential regulation and immunolocalization of juxtaglomerular and distal tubular renin in mice lacking guanylyl cyclase/natriuretic peptide receptor-a. *Am J Physiol Renal Physiol*, 2008.

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