

## CURRICULUM VITAE

### PERSONAL DATA

Name: R. Clinton Webb

### OFFICE ADDRESS

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### EDUCATIONAL BACKGROUND

1963-1967	Mt. Vernon Township High School, Mt. Vernon, Illinois
1967-1968	University of Iowa, Iowa City, Iowa
1968-1971	Southern Illinois University, Carbondale, Illinois, B.A. (Physiology)
1972-1973	Southern Illinois University, Graduate School, Carbondale, Illinois, M.S. (Physiology)
1973-1976	University of Iowa, Graduate School, Iowa City, Iowa, Ph.D. (Anatomy)

### POSTDOCTORAL EDUCATION

1976-1978	University of Michigan, Department of Physiology, (Post-doctoral Research Fellow, Michigan Heart Association)
1978-1979	Universitaire Instelling Antwerpen, Department of Medicine, Antwerp, Belgium (Research Associate)

### ACADEMIC APPOINTMENTS

1979-1980	Assistant Research Scientist, Department of Physiology, University of Michigan
1980-1983	Assistant Professor, Department of Physiology, University of Michigan
1983-1989	Associate Professor, Department of Physiology, University of Michigan
1989-99	Professor, Department of Physiology, University of Michigan
1996	Visiting Professor, Department of Physiology, University of New Mexico; Visiting Research Scientist, The Lovelace Institutes, Albuquerque
1999-2006	Robert B. Greenblatt Professor of Endocrinology, Medical College of Georgia
2000-present	Adjunct Member, Institute for Molecular Medicine and Genetics, Georgia Health Sciences University (formerly Medical College of Georgia)
2006-present	Herbert S. Kupperman Chair in Cardiovascular Disease, Professor of Physiology and Chairperson, Department of Physiology, Professor, Department of Surgery, Professor, School of Graduate Studies, Associate

2011-present Member, Vascular Biology Center, Georgia Health Sciences University  
(formerly Medical College of Georgia)  
Regents' Professor, Georgia Health Sciences University

## SCIENTIFIC ACTIVITIES

### Research Interests

The physiology of vascular smooth muscle, with particular emphasis placed on: 1) vascular reactivity in hypertension and diabetes, 2) penile and clitoral erection in sexual dysfunction, 3) cellular and subcellular mechanisms of contraction and relaxation of vascular smooth muscle (cell signaling, electrogenic sodium pump, subcellular calcium distribution, monovalent cation movements, nitric oxide, RhoA/Rho kinase, etc.), 4) adrenergic neurotransmission in blood vessels, and 5) intercellular communication between vascular smooth muscle cells.

## EDITORIAL BOARDS

American Journal of Physiology, Heart and Circulatory Physiology, Editorial Board, January, 1983- June, 1985, January, 1987-December, 1998, September, 2000-December, 2004.  
Heart and Circulatory Physiology, Associate Editor, July, 1985-December, 1986;  
Associate Editor, January, 2005-December, 2010.  
American Journal of Physiology, Endocrinology and Metabolism, Editorial Board, January, 1998-December, 2000.  
Hypertension, Editorial Board, 1983-84, 1997-present.  
Hypertension, Guest Editorial Board, 13<sup>th</sup> Scientific Meeting of the Inter-American Society of Hypertension, 1999.  
Hypertension, Section Editor, Council for High Blood Pressure Research, 1999.  
Nigerian Journal of Physiological Sciences, Corresponding Editor, May, 1987.  
Journal of Pharmacology and Experimental Therapeutics, Editorial Board, January, 1989-December, 1998; Guest Field Editor, July 1990-December 1992. Field Editor for Cardiovascular Pharmacology, January 1993-December, 1998.  
Journal of Hypertension, Editorial Board, 1997-2000.  
Circulation Research, Editorial Board 1998-2000.  
General Pharmacology: The Vascular System, 1999-2002.  
Biological Research for Nursing, Editorial Board, 1998-2002.  
Journal of Biomedical Science, 1999-2001.  
Cardiovascular Diabetology, Editorial Board, 2001-present.  
Journal of Cardiovascular Pharmacology, Editorial Board, 2001-present.  
Vascular Pharmacology, Editorial Board, 2002-present.  
Clinical Science, Associate Editor, 2004-07; Editor-in-Chief, 2008-present.  
Current Hypertension Reviews, Editorial Board, May, 2004-present.  
Current Cardiology Reviews, Editorial Board, June, 2004-present.  
Journal of CardioMetabolic Syndrome, Editorial Board (Founding Member), November, 2005-December, 2010.  
Journal of the American Society of Hypertension, Editorial Board, 2006-present.  
Journal of Vascular Research, Editorial Board, 2006-2009.  
Open General and Internal Medicine Journal (OGIM), 2007-present.  
Therapeutic Advances in Cardiovascular Diseases, 2007-present.  
Open Cardiovascular Medicine Journal, 2007-present.  
Journal of Medical Sciences, March, 2009-present.  
World Journal of Pharmacology, 2010-present.  
CardioRenal Medicine, January, 2011-present.  
Asian Journal of Andrology, 2011-present

## GRANT SUPPORT

### Past

- Role of cellular calcium in hypertensive blood vessels, Postdoctoral Research Fellowship Award, Michigan Heart Association, \$12,000, 1976-77.
- Na-K ATPase in blood vessels from hypertensive rats, Postdoctoral Research Fellowship Award, Michigan Heart Association, \$12,000, 1977-78.
- Vascular smooth muscle function in hypertension, Grant-in-Aid, Michigan Heart Association, \$11,351, 1980-81.
- Calcium and vascular smooth muscle in hypertension, Faculty Research Project, The University of Michigan, Michigan Memorial Phoenix Project, \$2,500, 1980-81.
- Altered vascular function in hypertension, National Institutes of Health, Research Career Development Award, HL-00813, \$203,330, 1980-85.
- Genetic aspects of vascular changes in hypertension, Grant-in-Aid, Michigan Heart Association, \$15,359, 1981-82.
- Red blood cell membrane in hypertension, National Institutes of Health, HL-18575, \$266,519, Collaborating Investigator (P.I. Dr. David F. Bohr), 1981-86.
- Central actions of mineralocorticoids on blood vessels, Principal Investigator, National Institutes of Health, HL-18575, \$63,600, 1984-86.
- Altered vascular response following ice water immersion, Biomedical Research Council, University of Michigan, \$5,200, Collaborating Investigator (P.I. Dr. David F. Bohr), 1986.
- Cellular mechanism for bevantolol-induced vasodilatation; Warner-Lambert Company, Ann Arbor, Principal Investigator, \$5,000, 1988.
- Vascular reactivity to angiotensin II and a novel antagonist; Triton Biosciences, Inc., Alameda, California, Principal Investigator, \$6,100, 1986-1988.
- Molecular and cellular aspects of vascular smooth muscle function, Co-Principal Investigator, National Science Foundation, \$14,000, 1989; Principal Investigator, \$14,415, 1994.
- Vascular responses to endothelin, an endothelium-derived contracting factor, Biomedical Research Support Grant, University of Michigan, Principal Investigator, \$4,470, 1988-1989.
- Membrane permeability and the CNS in DOCA hypertension, Collaborating Investigator (P.I. D.F. Bohr); NIH HL-39106, \$93,381, July 1, 1987 -June 30, 1990.
- Altered blood vessel function in hypertension, Principal Investigator, National Institutes of Health, HL-27020, \$118,861, 1982-85; \$329,518, 1985-1991.
- Altered ion metabolism in hypertension, National Institutes of Health, HL-18575, Program Project Grant, \$2,254,667, Director and Project Leader on 2 Subprojects, Collaborator on 3 Subprojects, 1991-94.
- Endothelium-dependent vasodilation and angiotensin converting enzyme inhibition, Hoechst-Roussel Pharmaceuticals, Inc. and The Upjohn Company, \$26,000, 1991-92.
- The influence of CS-045, an insulin sensitizing drug, and quinapril, an angiotensin-converting enzyme inhibitor on blood pressure and vascular reactivity in genetically hypertensive rats. Warner Lambert-Parke Davis Pharmaceutical Research Division, \$50,000, 1993-95.
- Mechanisms of vascular change in hypertension, National Institutes of Health, HL-18575, Program Project Grant, \$4,343,086, Director and Project Leader on 2 Subprojects, Collaborator on 3 Subprojects, 1994-99.
- Metabolic determinants of hypertension, National Institutes of Health, HL-18575, Program Project Grant, \$7,201,955, Director and Project Leader on 2 Subprojects, Collaborator on 3 Subprojects, 1999.
- Molecular and cellular aspects of vascular smooth muscle function, National Science Foundation, Principal Investigator, \$14,415, 1999-2000.

Aldosterone receptor antagonism and endothelium dysfunction in atherosclerosis, Monsanto Co., \$77,903, 1999-2000.

Vascular smooth muscle glucose transport in hypertension, National Institutes of Health, RO1 HL-65567, \$250,000, Collaborating Investigator (Principal Investigator: F.C. Brosius), 2001-2003.

American Physiological Society Fall Conference, Understanding Cardiovascular and Renal Function through Physiological Genomics, Organizing Committee, September/October, 2003.

Metabolic determinants of hypertension, National Institutes of Health, HL-18575, Program Project Grant, \$7,201,955, Project Leader on 2 Subprojects, Collaborator on 3 Subprojects, 1999-2004.

Erectile function and the influence of Rho-kinase, National Institutes of Health, RO1 DK-59467, \$909,775, Collaborating Investigator (Principal Investigator: Christopher J. Wingard), 2001-2005.

Nitric oxide inhibits RhoA/Rho-kinase in penile erection, National Institutes of Health, RO1 HL-71138, \$1,000,000, Principal Investigator, 2003-2007.

Molecular and cellular aspects of vascular smooth muscle function, National Science Foundation, Principal Investigator, \$25,538, 2006-2007.

Cytokines and angiotensin II-induced hypertension, National Institutes of Health, HL-74167, Program Project Grant, Director and Project Leader on 2 Subprojects, 2004-2010.

### **Current**

In the penis, RhoA activation is enhanced by guanine nucleotide exchange, National Institutes of Health, RO1 HL-71138, \$1,000,000, Principal Investigator, 2007-2011.

TNF-alpha: A key player in erectile (dys)function, National Institutes of Health, RO1 DK83685, \$1,000,000, Principal Investigator, 2009-2013.

Impact of royal jelly on the recovery of erectile function in non-obese type 2 diabetic rat, Yamada Bee Farm Grant for Honeybee Research, \$5,000, Co-Investigator, 2009-2010.

### **MILITARY SERVICE**

Illinois National Guard, 1971-73  
Iowa National Guard, 1973-76  
Michigan National Guard, 1976-78

### **HONORS AND AWARDS**

Recipient, Public Research Lecture Award, Iowa Chapter of Sigma Xi, September, 1975.

Member, Honor Society of Phi Kappa Phi, September, 1973 - present.

Visiting Scientist, Invitation by Graduate Student Body, Department of Physiology, Michigan State University, November 23, 1982.

Recipient, Research Career Development Award, National Heart, Lung and Blood Institute, National Institutes of Health (HL-00813), December, 1980-November, 1985.

Recipient, C. and F. DeMuth Award, Swiss Medical Research Foundation, International Society of Hypertension, February, 1982.

Fellow, Cardiovascular Section, American Physiological Society, April, 1982.

Recipient, Harold Lamport Award, Cardiovascular Section, American Physiological Society, April, 1982.

Honorable Mention, Louis N. Katz Basic Science Research Prize for Young Investigators. Council on Basic Science, American Heart Association, November 1982.

Recipient, Travel Award for the XXIX International Congress of Physiological Sciences. Sydney, Australia, August, 1983.

Certificates of Appreciation, American Heart Association of Michigan, 1991, 1993, 1994.

Elizabeth Dunaway-Burnham Visiting Scientist, Department of Physiology, Dartmouth Medical School, Lebanon, New Hampshire, June 21, 1995.  
Sterling Drug Visiting Professor, Department of Pharmacology and Neuroscience, Albany Medical College, Albany, New York, April 16, 1997.  
Washtenaw Intermediate School District Organization Award, Females in Technology, Ann Arbor, Michigan, May 7, 1998.  
Distinguished Service Award, American Heart Association of Michigan, 1998.  
Outstanding Faculty Award, School of Graduate Studies, Medical College of Georgia, 2002.  
Volunteer Recognition Award, American Heart Association, Research Administration, 2003.  
Recipient, Bodil M. Schmidt-Nielsen Distinguished Mentor and Scientist Award, Women in Physiology Committee, American Physiological Society, Washington, D.C., April 28, 2004.  
E. Eric Muirhead Hypertension Research Day Lectureship, The Cardiovascular-Renal Center of the University of Tennessee Health Science Center, Memphis, Tennessee, November 3, 2004.  
Distinguished Basic Research Award, Medical College of Georgia Research Institute, Augusta, Georgia, April 16, 2009.  
Regents' Professor, Georgia Health Sciences University, 2011.

## **MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES**

Member, American Physiological Society (Cardiovascular Section, Cell and Molecular Physiology Section).  
Member, Michigan Heart Association (American Heart Association Affiliate), Vice-President (1991-92), President-Elect (1992-93), President (1993-94), Immediate Past-President (1994-95).  
Member, Society for Experimental Biology and Medicine, Councillor (2004-08).  
Fellow, Council for High Blood Pressure Research, American Heart Association, Assembly Alternate (1999), Chair-elect (2006-08), Chair (2008-10), Immediate Past-Chair (2010-2012).  
Member, Serotonin Club.  
Fellow, Council on Circulation, American Heart Association.  
Member, The Inter-American Society of Hypertension.  
Member, Sigma Xi.  
Member, American Society of Hypertension.  
Member, International Society of Hypertension  
Member, American Society for Pharmacology and Experimental Therapeutics.  
Member, North American Vascular Biology Organization.  
Member, Association of Chairs of Departments of Physiology (2000-present), Councillor (2005-08), President-elect (2008-09, President (2009-10), Immediate Past-President (2010-11).  
Member, Carolinas and Georgia Chapter, American Society of Hypertension.  
Member, American Association for the Advancement of Science  
Member, International Society for Sexual and Impotence Research.  
Chair-Elect (2005-06); Chair (2006-07), Division for Systems and Integrative Pharmacology, American Society for Pharmacology and Experimental Therapeutics.  
Member, The Biochemical Society (2005-present).  
Member, Sexual Medicine Society of North America (2009-present).  
Member, Society for Women's Health Research (2009-present).

## **TEACHING ACTIVITIES**

### **Georgia Health Sciences University (formerly Medical College of Georgia)**

School of Medicine, Medical Physiology 5150, Small Group Problem Solving; Spring Semester, 2000 (four sessions); Spring Semester, 2001(three sessions); Spring Semester, 2002 (three sessions); Spring Semester, 2003 (three sessions); Spring Semester, 2004 (three sessions); Spring Semester, 2005 (four sessions); Spring Semester, 2005 (one lecture).  
School of Medicine, Students for Community Involvement 2000-present (one lecture per year).  
Student Educational Enrichment Programs, Research Apprentice Program, Summer, 2000-01.  
Student Educational Enrichment Programs, Physiology 200, 2 lectures, 2001.  
School of Graduate Studies 8020, Functional Cell Biology, unit director (Cell Signaling I), four lectures; two conferences, Fall, 2000.  
School of Graduate Studies, Physiology Seminar for Graduate Students, Fall, 2000.  
School of Graduate Studies 8110, Physiomics and Pharmacological Genomics, Course Director, six lectures, four discussion sessions, Fall, 2001.  
School of Graduate Studies 8032, Essentials in Physiology and Pharmacology, two lectures, Spring, 2002.  
School of Graduate Studies 8120, Cardiovascular Physiology and Pharmacology, two lectures, Spring, 2002-03.  
School of Graduate Studies 8012, Scientific Communications, one lecture, Spring, 2002-10.  
School of Allied Health, PHY3110, Principles of Physiology, two lectures, Fall, 2002; four lectures, Fall, 2003; four lectures, 2004.  
School of Graduate Studies 8130, Studies Scientific Grant Writing, two lectures, Fall, 2003-2009.  
School of Graduate Studies 8040, Molecular Medicine, one lecture, one discussion session, Spring, 2004.  
School of Medicine, Pediatrics 5085, Students for Community Involvement, one lecture, Spring, 2004-09.  
School of Graduate Studies, SGS 8011, Responsible Conduct of Research, one lecture, Fall, 2005-09.  
School of Graduate Studies SGS 8033, Integrative Systems Biology, one lecture, Spring, 2006-09.  
School of Graduate Studies SGS 8065, Critical Analysis of the Mechanisms of Disease, one lecture, Spring, 2006-07.  
School of Graduate Studies SGS 9210, Investigation of a Problem, eight discussion sections, Summer, 2006.  
School of Graduate Studies, PSIO 9010, Seminar in Physiology, sixteen discussion sections, Fall, 2010, winter, sixteen sessions, 2011.

### **The University of Michigan**

Physiology 101, Human Physiology, Laboratory and Discussion Sessions, 1976-78; six lectures, 1979-80.  
Physiology 501, Human Physiology for Graduate Students, two lectures, 1980.  
Physiology 806, Cardiovascular Regulation, graduate student seminar course, 1980-81,1987.  
Physiology 502, Human Physiology for Dental Students, eight lectures, 1980-1981; five lectures, 1986; four lectures, 1987; three lectures, 1988; four lectures, 1989; nine lectures, 1990; four lectures, 1992; eight lectures, 1993; four lectures, 1995.  
Physiology 502, Human Physiology, for dental students, fifteen lectures and laboratory director, 1981-82  
Physiology 502, Human Physiology for Dental Students, Course Director 1982-85  
Pharmacology 604, Cardiovascular Pharmacology, graduate student seminar course, 1984, 1986  
Physiology 606, Current Topics in Physiology, graduate student seminar course, 1985, 1986, 1987, 1997-98, Winter, 1999.  
Mentor, Medical Scientist Training Program, 1987 - present.

Physiology 604, Physiology of Aging, three lectures, 1986; three lectures, 1988; three lectures, 1990.

Physiology 505, Laboratory Physiology for Graduate Students, one lab, 1987; one lab, 1988. Preclinical Advisory Program, 1989-93.

Wade McCree Incentive Scholarship Program, three sessions, 1989, 1991.

Minority High School Student Research Apprentice Program, Summer, 1990-99.

Program in Scholarly Research for Urban/Minority High School Students, Summer, 1990, 1991, 1993.

King/Chavez/Parks Summer Workshop, July, 1990, July, 1992, July, 1993, July, 1994.

Comprehensive Studies Program-Mentorship Program, College of Literature, Science and Arts, 1990-91.

Core Lectures in Cardiology, Vascular Physiology, two sessions, 1991

Physiology 519, Selected Topics in Quantitative Physiology, Fall, 1991, five lectures; Fall, 1992, five lectures; Fall, 1993, five lectures; Fall, 1994, five lectures; Fall, 1995, five lectures; Fall, 1996, five lectures; Fall, 1997, five lectures; Fall, 1998, five lectures; Fall, 1999, five lectures.

Physiology 608, Seminar on Hypertension, Fall, 1991.

Pharmacology 501, Advanced Topics in Pharmacology (Cardiovascular Sequence): Fall, 1992; Fall 1993; Fall 1994.

Physiology 510 - 511, Systems and Integrative Physiology, Fall, 1992, two lectures; Spring, 1993, three lectures; Fall, 1993, four lectures; Spring, 1994, three lectures; Fall, 1994, four lectures; Spring, 1995, three lectures; Fall, 1995, three lectures (Course Director, Physiology 510); Fall, 1996, three lectures (Course Director, Physiology 510); Spring, 1997, four lectures; Fall, 1997, three lectures (Course Director, Physiology 510); Spring, 1998, five lectures; Fall, 1998, three lectures (Course Director, Physiology 510); Spring, 1999, three lectures; Fall, 1999, two lectures.

Environmental and Industrial Health 627, Introductory Seminar in Toxicology, Fall, 1994; Fall, 1995, Fall, 1996, Fall 1997, Fall, 1998, Fall, 1999.

University Mentorship Program, 1994-98.

Physiology 500, Physiology for Medical Students, Small Group Problem Solving, Winter, 1998; Winter, 1999.

Environmental and Industrial Health 628, Intermediate Toxicology Seminar, Winter, 1998.

### **Other**

Cardiovascular Pharmacology, Universitaire Instelling Antwerpen, three lectures, 1978.

Cardiovascular Pharmacology (PHM 813), Guest Lecture, Winter, 1998, Michigan State University, East Lansing, Michigan.

Third Hypertension Summer School, July 9-14, 1999, Council for High Blood Pressure Research, American Heart Association, University of Colorado, Boulder, Colorado.

Cardiovascular Physiology, Guest Lecture, Spring, 2004, Department of Kinesiology and Health Science, Augusta State University, Augusta, Georgia.

Fifth Hypertension Summer School, July 16-20, 2005, Council for High Blood Pressure Research, American Heart Association, Maine Maritime Academy, Castine, Maine.

Sixth Hypertension Summer School, July 27-29, 2007, Council for High Blood Pressure Research, American Heart Association, Colorado State University, Fort Collins, Colorado.

## **COMMITTEE AND ADMINISTRATIVE SERVICES**

### **Outside of The Georgia Health Sciences University**

#### **Association of Chairs of Departments of Physiology**

National Caucus of Basic Biomedical Science Chairs, Washington, D.C., June 27-29, 2007,  
June 18-20, 2008.

#### **American Heart Association of Michigan**

Research Fellowship Committee, 1981-87; Vice-Chairman, 1984-85; Chairman, 1985-87;  
Special Primary Reviewer, 1988-90  
Research Council, 1984-87, 1990-93.  
Research Peer Review Committee, 1985-90; 1996-97.  
Research Executive Committee, 1985-87, 1990-93.  
Research Forum Committee, 1985-91; Chairman, 1990-91.  
Research Task Force on Cardiovascular Science Goals, 1990-91.  
Board of Directors, 1991-96.  
Research Committee, 1991-93.  
Long Range Planning Committee, 1991-92; Co-Chairperson, 1995-96.  
Nominations Committee, 1991-95, Chairman, 1992-93.  
Executive Committee, 1992-95.

#### **American Heart Association - Mid-America Research Consortium/Great American Research Consortium**

Research Peer Review Committee, 1998-99.

#### **American Heart Association - Southeast Affiliate**

Research Peer Review Committee (ad hoc), 2001, 2004.  
Region II, Basic Cell and Molecular Biology 1 Peer Review Committee, 2008.

#### **American Heart Association - National**

Consultant (abstract grader), Committee on Scientific Sessions, 1987; 1993, 2000, 2003-2006.  
Cardiovascular A Research Study Committee, January 1, 1985-December 31, 1987.  
Council for High Blood Pressure Research, Fall Conference Committee (1991-94; ad hoc, 1997,  
1999-2001, 2006-present; Chair 2006-08; 2011), Executive Committee, Member-at-  
Large (1995-2001), Membership Recruitment Working Group (May, 1996 - November,  
1997); Long Range Planning Committee (November, 1996-October, 1998), Strategic  
Planning Committee (1998-99), Publications Committee (August, 1999-June 2002),  
Consultant (abstract grader, 1998-2002, 2004-2009), Executive Committee Member  
(2001-2005), Leadership Committee (2005-present), Awards Committee (2006-present,  
Chair 2006-08), Novartis Award Selection Committee (2006-10, Chair, 2008-10),  
Liaison, Kidney Council, Nominating Committee (2008-10), Scientific Sessions Program  
Committee (2010-present), Search Committee for Editorship of Hypertension (2010-  
2011).  
Chairperson, Cardiovascular Regulation Research Review Committee II, 1996-2000.  
Basic Science Section of the AHA Student Scholarships in Cardiovascular Disease and Stroke  
Program, 1998-02.  
Research Committee, 2000-2005.  
Science Classification Task Force, 2001.  
Chairperson, Cardiovascular Regulation Research Review Committee I, 2001-2005.  
National Research Program Subcommittee Task Force on Portfolio Issues, 2003.  
Early Career Development Task Force, 2003-2004.  
Peer Review Site Visitor, National Review Committees, April 5, 2004.

Program Committee, Fifth Hypertension Summer School, 2004-2005.  
Ethnicity and Gender Working Group, 2004-present.  
Fellow-to-Faculty Award Review Committee. 2004-2005.  
Strategic Planning Committee-2006-10.  
International Mentoring Program, 2006-present.  
Basic Cell and Molecular Biology Review Committee 1, 2007-2011.  
Scientific Advisory and Coordinating Committee, 2008-10.  
Council Operations Committee, 2010-14.  
Scientific Sessions Program Committee, 2010-present.

### **American Physiological Society**

Career Opportunities in Physiology Committee, 1982-88  
Porter Physiology Development Committee, January, 1995-December, 1997.  
Mentor, NIDDK Fellow, Experimental Biology '95, Atlanta, Georgia; Experimental Biology '97, New Orleans, Louisiana.  
Renal Section, Judge for Student and Postdoctoral Awards, Experimental Biology '95, Atlanta, Georgia; Experimental Biology '97, New Orleans, Louisiana.  
FASEB Research Conference Advisory Committee, October 1, 1997-December 31, 2000.  
Cardiovascular Section, Nominating Committee 1998-2001; NIH/NHLBI Liaison Committee, 2010-12.

### **American Society for Pharmacology and Experimental Therapeutics**

Subcommittee on the Graduate Student Convocation of the Committee on Education, 1999-2001.  
Committee on Graduate Recruitment and Education, 2001-2002.  
Scientific Program Committee (ad hoc), 2005-2006.  
Delegate, IUPHAR-2006, Beijing, China, July 2-7, 2006  
Executive Committee, Division of Systems and Integrative Pharmacology, 2003-present.

### **Inter-American Society of Hypertension**

Awards Committee, 2003.  
Organizing Committee, XV Scientific Meeting of the Inter-American Society of Hypertension, San Antonio, Texas, April 27-30, 2003.  
Scientific Advisory Committee, XVI Meeting of the Inter-American Society of Hypertension, Cancun, Mexico, April 17-20, 2005.  
Organizing Committee, XVIII Scientific Meeting of the Inter-American Society of Hypertension, Belo Horizonte, Minas Gerais, Brazil, August 5-8, 2009.  
Organizing Committee, XIV Scientific Meeting of the Inter-American Society of Hypertension, Lake Buena Vista, Florida, September 20-24, 2011.

### **International Society of Hypertension**

Ambassador, International Advisory Board, 24<sup>th</sup> Scientific Meeting of the International Society of Hypertension, September 29-October 4, 2012.

### **Society for Women's Health Research**

Isis Cardiovascular Network, 2009-present.

### **National Institutes of Health**

Site Visit Teams, National Heart Lung and Blood Institute, May, 1984; March, 1985; May, 1985; February, 1986; October, 1986; January, 1987; May, 1987; February, 1988, April, 1988; August, 1988; February, 1989; August, 1989; February 12-14, 1990; February 26-28, 1990; October 14-16, 1991; May 18-20, 1992; January 11-13, 1993; Feb 17-19, 1993; May 4-6, 1993; May 12-14, 1993; September 20-22, 1993; May 2-4, 1994; September 19-20, 1994; October 5-7, 1994; January 11-13, 1995.

Special Study Sections/Special Emphasis Panels, Department of Health and Human Services, Public Health Service, November 26, 1984; May 3, 1985; February 4, 1987; April 6-7, 1987; February 8-10, 1988; March 15-16, 1990; April 20, 1993; June, 1994; April 27-28, 1995; May 11-12, 1995; December 14, 1995, February 6, 1996; May 9, 1996; October 11, 1996; January 13, 1997; May 15-16, 1997, January 15-16, 1998 (Winter Blood PO1 Reviews); April 27, 1998; September 11, 1998; October, 19, 1998; April 7, 1999; September 23, 1999; December 10, 1999; December 8, 2000, May 3-4, 2001 (Spring Vascular PO1 Review), September 10, 2001, September 14, 2001, October 17, 2001, September 12-13, 2002 (Fall Hypertension PO1 Reviews), October 29, 2002, December 17, 2002, February 26, 2003, May 20, 2004 (Spring Vascular PO1 Review), September 13, 2004 (Fall Vascular PO1 Review), December 17, 2004 (Winter Vascular PO1 Review), January 11, 2005, May 12, 2005; September 12, 2005; December 8-9, 2005 (Winter Vascular PO1 Review), January 31, 2006; May 4-5, 2006 (Spring Vascular PO1 Review); September 25, 2006 (Program Project Review); November 9-10, 2006 (Mentored Scientist Award-K99), April 18-19, 2007, September 10, 2007 (Program Project Review), October 29, 2007 (Mentored Scientist Award-K99/R00), January 29, 2008 (PO1 Review), May 21-22, 2008 (Maximizing the Scientific Value of the Biologic Specimens form the Women's Health Initiative), July 21-22, 2008 (George M. O'Brien Urology Research Center-P50 applications), July 24, 2008 (Mentored Scientist Award-K99/R00) Heart, Lung and Blood Initial Review Group, January 23, 2009, Heart, Lung and Blood Institute (Conference Grants, R13s), March 31-April 1, 2009, Heart, Lung and Blood Institute (PO1 Review), April 7, 2009; Heart, Lung and Blood Institute (PO1 Review, May 29, 2009; Challenge Grant Review, July 20-21, 2009; July 27-28, 2009 (George M. O'Brien Urology Research Center-P50 applications); Heart, Lung and Blood Institute (PO1 Review), December 15, 2009; UKGD Member Conflict Special Emphasis Panel, Chairperson, March 25, 2010; Heart, Lung and Blood Institute (PO1 Review), May 11, 2010; June 17, 2010 (SEP), Mechanism of Arterial Stiffening and Hypertension; Heart, Lung and Blood Institute (RO1), Sep 17, 2010; Heart, Lung and Blood Institute (PO1 review), Nov 18, 2010; UKGD Member Conflict Special Emphasis Panel, March 2, 2011.

Experimental Cardiovascular Sciences Study Section, Division of Research Grants, Special Reviewer, June 25-27, 1985; Temporary Member, 1997; 1999, 2000.

Heart, Lung and Blood Research Review Committee B, National Heart, Lung and Blood Institute, 1991-94.

Program Project Review Committee, National Heart, Lung and Blood Institute, 1994-95; Ad hoc, March 21, 1996; Ad hoc, March 27, 1997; Ad hoc, December 3, 1998; Temporary Member, November 29, 2001; Temporary Member, December 5, 2002; Temporary Member, March 16, 2006.

Reviewers Reserve, 1992-present.

Surgery and Bioengineering Study Section, Temporary Member, Spring, 1998; Member, July 1, 1998 - June 30, 2002; Ad hoc, October 2, 2002.

Cardiovascular and Renal Study Section, Ad hoc, June 26, 2000.

Genetics of Hypertension SCOR Review, June 22-23, 2000.

National Space Biomedical Research Institute, Cardiovascular Alterations Panel (Ad hoc), August 7-8, 2000.

Site Visit Team, National Institute for Occupational Safety and Health, February 20-21, 2002.

Pathology A Study Section, Ad hoc, February 26-27, 2002.

Urologic and Kidney Development and Genitourinary Diseases Study Section, March 2003 (ad hoc), 2003-2007, June 2008 (ad hoc), September, 2009 (ad hoc).

NHLBI Working Group on Future Directions for Hypertension Research, May 24-25, 2004.

Physiology and Pathobiology of Organ Systems Study Section (ZRG1 F10, ad hoc), November 13-15, 2005; March 20-21, 2006.

Vascular Cell and Molecular Biology Study Section, Ad hoc, June 15-16, 2009; October 11-12, 2010.

College of CSR Reviewers, 2010-2012.

### **Veterans Administration**

Site Visit Team, Veterans Administration, Merit Review Board for Nephrology, March, 1988.  
Ad hoc Reviewer, 1989, 1993, 1998, 1999.

### **Other**

Bureau of Research, National Osteopathic Foundation, Ad hoc Reviewer, 1984.  
Scientific Planning Committee, XIII Congress of the International Society for Heart Research, May 14-18, 1989, University of Michigan, Ann Arbor, MI, 1986-89.  
Symposium Organizer, Federation of American Societies for Experimental Biology, 1983, 1989, 2000, 2005.  
Organizing Committee, U.S.-Japan Cooperative Symposium on Molecular and Cellular Aspects of Vascular Smooth Muscle Function. Honolulu, Hawaii, January, 1989; February, 1994.  
Scientific Committee, Fifth International Symposium on Mechanisms of Vasodilatation, Strausbourg, France, July 6-8, 1989; Sixth International Symposium, Glasgow, Scotland, August, 1993; Seventh International Symposium, Maastricht, The Netherlands, 1997.  
Symposium Organizer, XIV Congress of the International Society for Heart Research, May 29-June 2, 1991, University of Cincinnati, Cincinnati, Ohio.  
Cardiovascular Study Section, Tobacco-Related Disease Research Program, University of California, April, 1991.  
Consultant (abstract grader), International Society of Hypertension, 1996, 1998, 2006.  
External Unit Review Committee, Biomedical Sciences Graduate Program, The University of New Mexico, 1996.  
Judge, 7th Annual Biomedical Sciences Graduate Student Research Day, University of New Mexico School of Medicine, February 20, 1996.  
Regional Judge, Northwestern New Mexico Regional Science and Engineering Fair, The University of New Mexico, March 15, 1996.  
Medical Advisory Board, Juvenile Unknown Mitochondrial Problems Foundation, 1996-present.  
Content Expert, ASH Specialist Program, American Society of Hypertension, 2000-present.  
Scientific Advisory Board, Georgia Research Alliance, 2000-2002.  
International Organizing Committee, Frontiers in Hypertension Research-2001, Weifang, Peoples Republic of China, June, 2000-July, 2003.  
External Advisory Committee, Program Project Application, Department of Pharmacology and Toxicology, Michigan State University, June 28, 2001.  
Referee, The Wellcome Trust, London, May, 2002.  
Fellowship Selection Committee, Consortium for Southeastern Hypertension Control, July, 2002-present.  
Advisory Board, Noven Pharmaceuticals, Inc., August, 2002-present.  
Referee, Alberta Heritage Foundation for Medical Research, November-December, 2002; January-February, 2010.  
Grant Review, National Kidney Foundation of Michigan, 2003.  
Assessor, National Health and Medical Research Council, Australian Government, June, 2004.  
Referee, Swiss National Science Foundation, October-November, 2004.  
Referee, Philip Morris External Research Program, November, 2004.  
Grant Reviewer, Israel Science Foundation, June, 2005.  
External Reviewer, Department of Physiology and Biophysics, University of Louisville, March, 2006; March 2011.  
Grant Reviewer, Medical Research Council, United Kingdom, February, 2006, November, 2009.  
Symposium Organizer, Division of Systems and Integrative Pharmacology, Experimental Biology, 2006, San Francisco.  
Grant Reviewer, Fonds Wetenschappelijk Onderzoek, Belgium. February, 2007.

Member, Integrative Review Group-Atlantic Region, Canada Foundation for Innovation, Research Hospital Fund, Large-Scale Institutional Endeavours, 2007 Competition, February 18-19, 2008.  
Reviewer, Southwest National Primate Research Center, Pilot Study Applications, April, 2008.  
Reviewer, Pennsylvania Department of Health Performance Reviews, April, 2009.  
Grant Reviewer, University of Kuwait, 2010.  
Reviewer, Baltimore Diabetes Research and Training Center Pilot and Feasibility Award Program, March, 2010.  
External Reviewer, Department of Physiology, Southern Illinois University, January, 2011.

### **The Georgia Health Sciences University (formerly Medical College of Georgia)**

Data Management/Bioinformatics Steering Committee, March, 2000-present.  
Cardiovascular Disease Steering Committee, March, 2000-present.  
Mission-Based-Management Research Design Team, June, 2000-July, 2002.  
Search Committee for the Chairperson of Department of Biochemistry and Molecular Biology, June, 2000-2004.  
M.D., Ph.D. Advisory Committee, July, 2000-2002.  
Search Committee for the Chairperson of Department of Pathology, August, 2000-December, 2001.  
Postdoctoral Affairs Council, August, 2000-present.  
Biomedical Research Council, School of Medicine, August, 2000-present.  
Search Committee for Genomic Medicine Eminent Scholar, 2000-2002.  
Special Task Force on Diversity, March, 2001-present.  
Diversity Working Group, April, 2001-December, 2001.  
Research Program Committee, MCG Physical Master Plan, April, 2001-present.  
Executive Faculty Advisory Committee, September, 2001-present.  
President's Council for Diversity, December, 2001-present.  
Search Committee for the Chairperson of Department of Medicine, 2002-2003.  
MCG Cancer Center Executive Board, 2002-present.  
Postdoctoral Training in Integrative Cardiovascular Biology, preceptor, 2001-2006, Parent Committee, 2001-2006.  
Predoctoral Training in Cardiovascular Biology, preceptor, 2004-2009.  
Dean's Planning Advisory Committee, 2006-2009.  
MCG Research Institute Research Award Selection Committee, 2006-present.  
Long Term Strategic Planning, World Class Integrated Programs Workgroup, 2011.

### **The University of Michigan**

#### **Department of Physiology**

Internal Review Committee, November, 1984-February, 1985  
Seminar Program, 1984-85 (Chairman); 1989-90 (Committee); 1994-95 (Chairman).  
Graduate Program Committee, 1985-88 (Chairman); 1996-present (Committee).  
Chairman's Advisory Committee, 1989-92; 1996-99.  
Cellular and Molecular Approaches to Systems and Integrative Biology Training Program, July, 1990-December, 1999.  
Space Committee, 1994-97.  
Graduate Program Preliminary Examination Focus Group, 1994-95.  
Strategic Planning Committee, 1997-98.  
Departmental Focus Group on Integrative Biology, 1998.

#### **Other**

Training Grant in Pharmacological Sciences, Biology Track Subcommittee, June 1985-88; preceptor, 1986-99; Parent Committee, 1985-88.  
Evaluator of Foreign Credit, Undergraduate Admissions, 1985-88.  
Faculty Selection Committee, Rackham Dissertation/Thesis Grant, Horace H. Rackham School of Graduate Studies, 1988.  
Faculty Search Committee, Department of Physiology, 1990.  
Member, Michigan Diabetes Research and Training Center, 1990-99.  
Executive Committee, Cardiovascular Research Center, 1991-99.  
Divisional Board for Biological and Health Sciences Horace H. Rackham School of Graduate Studies, 1991-93 Chairperson, 1992-93.  
Funding Committee for Retreat on Graduate Education, Medical School, 1992.  
Toxicology Training Program, Department of Environmental and Industrial Health, School of Public Health, 1993-99.  
Committee on Student Biomedical Research Review Committee, 1995-96, 1998-99.  
Diversity and Career Development Committee, Medical School, 1996-99.  
Training in Molecular and Cellular Cardiology, Cardiovascular Research Center, Division of Cardiology (Faculty Preceptor), 1996-99, Co-Program Director, 1997-99.  
Task Force, Faculty Salary Structure, Medical School, 1997-98.  
Mentor, Child Health Research Center Grant, Advancing Child Health Through Cell/Molecular Biology, Department of Pediatrics, 1995-99.  
Committee on Student Biomedical Research, Awards Committee, 1999.  
Cardiovascular Center Proposal Research Subcommittee, 1999.

## **INVITED LECTURES**

“Electrogenic sodium pump and vasodilation”. Department of Medicine, Universitaire Instelling Antwerpen, Wilrijk, Belgium, July 15, 1977.  
“Angiotensin II and vascular smooth muscle”. Department of Pharmacology, The University of Michigan, March 5, 1980.  
“Sodium, potassium adenosine triphosphatase and vasodilation”. Second International Symposium on Mechanisms of Vasodilation, Wilrijk, Belgium, July 23-25, 1980.  
“Mechanisms of vascular constriction”. Department of Internal Medicine, Division of Cardiology, The University of Michigan, August 5, 1981.  
“Vascular smooth muscle in hypertension”. Department of Physiology, University of Health Sciences, North Chicago, IL, September 15, 1981.  
“Neural control at the vascular wall”. Department of Physiology, Michigan State University, Lansing, MI, October 22, 1981.  
“Vascular responses to serotonin in hypertension”. Department of Physiology, Michigan State University, Lansing, MI, October 23, 1981.  
“Vascular changes in hypertension”. Department of Internal Medicine, Division of Pediatric Cardiology, The University of Michigan, December 12, 1981.  
“Vascular responses to serotonin and methysergide in hypertension”. Department of Physiology and Biophysics, Mayo Medical School, Rochester, MN, May 1982.  
“Calcium, vascular smooth muscle and hypertension”. Department of Pharmacology, Hoechst-Roussel Pharmaceuticals, Inc., Somerville, New Jersey, July 12, 1982.  
“Relaxation of vascular smooth muscle in response to electrical stimulation”. Department of Physiology, Michigan State University, East Lansing, Michigan, November 1982.  
“Vascular responses to histamine”. Unit for Laboratory Animal Medicine, The University of Michigan, Ann Arbor, Michigan, January 8 1983.  
“Serotonin and vasodilatation”. Third International Symposium on Mechanisms of Vasodilatation, Sydney, Australia, August 25-27, 1983.  
“Direct and potentiating actions of serotonin on vascular smooth muscle”. Cleveland Clinic, Cleveland, Ohio, September 20, 1983.

- “Vascular smooth muscle reactivity and the electrogenic sodium pump”. Department of Internal Medicine, Division of Cardiology, The University of Michigan, Ann Arbor, Michigan, October 6 1983.
- “Direct and sensitizing effects of serotonin agonists and antagonists on vascular smooth muscle”. Satellite Symposium to the 10th Scientific Meeting of the International Society of Hypertension, Zurich, Switzerland, June 14-15, 1984.
- “Altered vascular responsiveness in hypertension”. The Squibb Institute for Medical Research, E.R. Squibb and Sons, Inc., Princeton, New Jersey, June 25, 1984.
- “Vascular changes in hypertension”. Department of Physiology, Southern Illinois University, Carbondale, Illinois, September 4, 1984.
- “Serotonin and vascular smooth muscle”. Brigham and Women’s Hospital and Department of Physiology, Harvard Medical School, Boston, Massachusetts, September 19, 1984.
- “Role of calcium in vascular smooth muscle contractility”. Postgraduate Seminar, Council for High Blood Pressure Research, American Heart Association, 57th Scientific Sessions, Miami Beach, Florida, November 11, 1984.
- “Hypersensitivity of blood vessels to serotonin”. Second Irvine Page Workshop on Serotonergic Mechanisms in the Cardiovascular System, Stockholm, Sweden, December 6-8, 1984.
- “Calcium, vascular smooth muscle and hypertension”. Departments of Physiology and Pharmacology, Texas A and M University, College of Medicine, College Station, Texas, February 1, 1985.
- “Calcium, vascular reactivity and hypertension”. Cardiovascular Diseases Research, The Upjohn Company, Kalamazoo, Michigan, February 18, 1985.
- “Vascular smooth muscle and hypertension”. Department of Pharmacology, Sterling-Winthrop Research Institute, Rensselaer, New York, March 14, 1985.
- “Vascular reactivity and hypertension”. Hypertension Unit, Department of Internal Medicine, The University of Michigan, Ann Arbor, Michigan, April 29, 1985.
- “Vascular responses to atrial natriuretic factor in hypertension”. Workshop on Hypertension and the Vasculature, Cardiovascular Institute, Boston University, Newport, Rhode Island, May 27-30, 1985.
- “Oxygen-derived free radicals and vascular reactivity”. Department of Physiology, Michigan State University, East Lansing, Michigan, June 18, 1985.
- “Vascular reactivity in hypertension”. Department of Medicine, Michigan State University, East Lansing, Michigan, June 19, 1985.
- “Vascular responsiveness to serotonin in hypertension”. Advanced Course on Serotonin and the Cardiovascular System, Janssen Research Foundation, Veldhoven, The Netherlands, September 5-7, 1985.
- “Temperature and blood vessel responsiveness”. Department of Physiology, The University of Michigan, Ann Arbor, Michigan, October 2, 1985.
- “Calcium, vascular smooth muscle and hypertension”. Department of Physiology, Wayne State University, Detroit, Michigan, October 22, 1985.
- “Vascular reactivity and hypertension”. Department of Pharmacology, University of Virginia, Charlottesville, Virginia, October 24, 1985.
- “Vascular responses to ouabain in hypertension”. Department of Pediatric Cardiology, The University of Michigan, Ann Arbor, Michigan, November 20, 1985.
- “Vascular reactivity and calcium influx”. The Use of Calcium Entry Blocking Agents in the Treatment of Hypertension, Marion Laboratories, Inc., Nassau, Bahamas, March 27-29, 1986.
- “Calcium, vascular reactivity and hypertension”. Departments of Internal Medicine and Physiology, Oregon Health Sciences University, Portland, Oregon, June 3, 1986.
- “Vascular reactivity to angiotensin II and complementary peptides”. Third Annual Triton Scientific Conference, Triton Biosciences Inc., Carmel Valley, California, July 1, 1986.
- “Vasodilator properties of serotonin”. Fourth International Symposium on Mechanisms of Vasodilatation, Mayo Clinic, Rochester, Minnesota, July 9-12, 1986.

- “Serotonin and Vasodilatation”. Erik K. Fernstrom Symposium, Neuronal Messengers in Vascular Function, Lund, Sweden, September 25-27, 1986.
- “Experimental studies of lead and hypertension: Vascular reactivity”. International Symposium on Lead-Blood Pressure Relationships, Chapel Hill, North Carolina, April 27-29, 1987.
- “Membrane mechanisms for increased vascular sensitivity in hypertension”. Cardiovascular Center and Department of Anatomy, The University of Iowa, College of Medicine, Iowa City, Iowa, September 18, 1987.
- “Cellular mechanisms for increased vascular sensitivity in hypertension”. Department of Physiology, University of Louisville, Louisville, Kentucky, September 20, 1987.
- “Cellular basis for increased vascular reactivity in hypertension”. Department of Pharmacology, Wayne State University, Detroit, Michigan, February 19, 1988.
- “Cellular mechanisms for increased vascular reactivity in hypertension”. Peripheral Vascular Section, Boston University Medical Center, Boston, Massachusetts, February 24, 1988.
- “Calcium and contractile responses to phorbol esters and the calcium channel agonist, bay K 8644 in vascular smooth muscle from aortic coarctation-induced hypertensive rats”. International Seminar on Calcium Metabolism in Hypertension, Tokyo, Japan, August 29 - September 2, 1988.
- “Calcium and vascular reactivity in stroke-prone spontaneously hypertensive rats.” Second U.S.-Japan Symposium on Cellular and Molecular Aspects of Vascular Smooth Muscle in Health and Disease, Honolulu, Hawaii, January 19-21, 1989.
- “Cellular basis for augmented vasoconstrictor sensitivity in hypertension”. Department of Physiology, Marshall University, Huntington, West Virginia, March 6, 1989.
- “Cellular mechanism for increased vascular reactivity in hypertension”. Department of Pharmacology, University of Texas, Health Science Center, San Antonio, Texas, May 10, 1989.
- “Calcium regulation in vascular smooth muscle”. Department of Pharmacology, University of Michigan, Ann Arbor, Michigan, December 4, 1990.
- “Calcium, vascular reactivity and hypertension”. Department of Pediatrics, University of Michigan, Ann Arbor, Michigan, December 19, 1990.
- “Vascular reactivity in aging and hypertension”. Department of Pharmacology, Berlex Laboratories, Inc., Cedar Knolls, New Jersey, February 21, 1991.
- “Calcium, cell communication and vascular reactivity in hypertension”. Department of Pharmacology and Toxicology, Albany College of Medicine, Albany, New York, May 22, 1991.
- “Second messenger systems in vascular smooth muscle”. 1991 American Physiological Society Specialty Meeting on Interactions of the Endocrine and Cardiovascular Systems in Health and Disease, San Antonio, Texas, October 1, 1991.
- “Calcium, gap junctions and increased vascular reactivity in hypertension”, Department of Physiology, Tulane University, School of Medicine, New Orleans, Louisiana, October 27, 1991.
- “Increased vascular reactivity in hypertension. Does the endothelium make a difference?”, Department of Anatomy and Cell Biology, University of Michigan, Ann Arbor, Michigan, March 11, 1992.
- “The endothelium and vascular tone in hypertension”. Department of Cardiology, Marquette General Hospital, Marquette, Michigan, June 11, 1992.
- “Lead (Pb) and hypertension”, Department of Environmental and Industrial Health, School of Public Health, University of Michigan, Ann Arbor, Michigan, October 30, 1992.
- “Nitric oxide and its role in cardiovascular and hormonal control”, State-of-the-Art Lecture, 1993 International Aldosterone Conference, Las Vegas, Nevada, June 8, 1993.
- “Nitric oxide and hypertension”, Department of Pediatrics, University of Michigan, Ann Arbor, Michigan, June 16, 1993.
- “Nitric oxide and vascular reactivity in hypertension”, Department of Pharmacology, University of Michigan, Ann Arbor, Michigan, July 14, 1993.

- “Gap junctions and increased vascular reactivity in hypertension”, Hypertension Research Center, University of Medicine and Dentistry of New Jersey, Newark, New Jersey, October 4, 1993.
- “Nitric oxide and vascular reactivity in hypertension”, Department of Physiology, University of Mississippi, Medical School, Jackson, Mississippi, November 3, 1993.
- “Intercellular communication and increased vascular reactivity in hypertension”, Department of Physiology and Cardiovascular Research Center, Medical College of Wisconsin, Milwaukee, Wisconsin, December 15, 1993.
- “Gap junctions and increased vascular reactivity in hypertension.” Third U.S.-Japan Symposium on Cellular and Molecular Aspects of Vascular Smooth Muscle in Health and Disease, Honolulu, Hawaii, January 3-5, 1994.
- “The vasodilator properties of nitric oxide may be cyclic GMP-independent.” Hypertension Center, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, North Carolina, May 6, 1994.
- “Vasodilator properties of nitric oxide may be cyclic GMP-independent”. Department of Pharmacology and Experimental Therapeutics, University of Kentucky College of Pharmacy, Lexington, Kentucky, September 8, 1994.
- “Nitric oxide and abnormal vascular myocyte signaling in hypertension”. Department of Internal Medicine, Division of Cardiology (Grand Rounds), University of Michigan, Ann Arbor, Michigan, May 9, 1995.
- “Nitric oxide and cellular signaling in the vasculature.” Division of Hypertension, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, May 15, 1995.
- “Signal transduction abnormalities in hypertension”. State-of-the-Art Lecture, XI Scientific Meeting of the Inter-American Society of Hypertension, Montreal, Canada, June 19, 1995
- “Nitric oxide and abnormal vascular myocyte signaling in hypertension.” Department of Physiology, Dartmouth Medical School, Lebanon, New Hampshire, June 21, 1995 (Elizabeth Dunaway-Burnham Visiting Scientist).
- “Signal transduction abnormalities in hypertension.” Division of Endocrinology, Department of Internal Medicine, Wayne State University, Detroit, Michigan, July 19, 1995.
- “Hypertension and augmented cellular signaling in the vasculature.” Division of Nephrology, Department of Internal Medicine, Renal Center Seminar Series, University of Michigan, Ann Arbor, Michigan, December 5, 1995.
- “A new vascular myocyte signal transduction mechanism in hypertension.” Department of Physiology, University of New Mexico, Albuquerque, New Mexico, January 25, 1996.
- “Calcium signaling in the vascular myocyte in hypertension.” The Lovelace Institutes, Albuquerque, New Mexico, February 26, 1996.
- “Serotonin and signal transduction in vascular smooth muscle cells in hypertension.” Cell Biology Group, Departments of Pharmacology, Physiology and Biochemistry, University of New Mexico, Albuquerque, New Mexico, April 22, 1996.
- “The endothelium and increased vascular reactivity in hypertension.” Parke-Davis Pharmaceutical Company, Ann Arbor, Michigan, May 21, 1996.
- “Cell signaling and vascular growth in hypertension.” 16th Scientific Meeting of the International Society of Hypertension, Glasgow, United Kingdom, June 25, 1996.
- “Calcium channel activity and vascular responsiveness is augmented in hypertension.” XI Reuniao Anual da Federacao de Sociedades de Biologia Experimental, Caxambu, MG, Brazil, August 24, 1996.
- “Extracellular calcium sensing, cell signaling and vascular reactivity in hypertension.” Department of Pharmacology, School of Medicine, University of Sao Paulo, Ribeirao Preto, SP, Brazil, August 27, 1996.
- “Reduced nitric oxide activity augments cell signaling in vascular myocytes in hypertension.” Department of Pharmacology, School of Medicine, University of Sao Paulo, Sao Paulo, SP, Brazil, August 28, 1996.

- "Reduced nitric oxide activity augments cell signaling in vascular myocytes in hypertension." Department of Pharmacology and Toxicology, Michigan State University, East Lansing, Michigan, October 29, 1996.
- "Nitric oxide, cellular signaling and increased vascular reactivity in hypertension." Division of Hypertension, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, January 23, 1997.
- "Sphingomyelin signaling in the vasculature." American Physiological Society Symposium, Novel signal transduction mechanisms in the vasculature. Experimental Biology 97, New Orleans, Louisiana, April 7, 1997.
- "Reduced nitric oxide activity augments cell signaling in vascular myocytes in hypertension." Department of Pharmacology and Neuroscience, Albany College of Medicine, Albany, New York, April 16, 1997.
- "Serotonin, St. Anthony's Fire and vascular injury in hypertension." Department of Pharmacology and Neuroscience, Albany College of Medicine, Albany, New York, April 16, 1997.
- "Serotonin, St. Anthony's Fire and vascular injury in hypertension." Hypertension and Vascular Research Division, Henry Ford Hospital and Health Sciences Center, Detroit, Michigan, April 25, 1997.
- "Calcium signaling and vascular responsiveness is augmented in hypertension." Department of Pharmacology. New York Medical College, Valhalla, New York, May 7, 1997.
- "Cell signaling events contributing to photorelaxation of arteries." American Society for Photobiology, 25th Annual Meeting, St. Louis, Missouri, July, 8, 1997.
- "Thudichum, sphingomyelin/ceramide signaling and vasodilation to tumor necrosis factor- $\alpha$ ". Department of Physiology, Texas A and M University, College of Medicine, College Station, Texas, February 19, 1998.
- "Tumor necrosis factor- $\alpha$  and vasodilatation". Division of Hypertension, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, May 7, 1998.
- "Glucocorticoid hypertension: What makes blood pressure go up?". Department of Physiology and Endocrinology, Medical College of Georgia, Augusta Georgia, October 28, 1998.
- "The microtubule network and vascular function". Department of Physiology, Wayne State University, Detroit, Michigan, November 5, 1998.
- " $\beta$ -Adrenergic receptors in the vasculature, a historical perspective". American Heart Association, 71st Scientific Sessions, Dallas, Texas, November 9, 1998.
- "Glucocorticoid hypertension: What makes blood pressure go up?" Division of Endocrinology, Department of Internal Medicine, Wayne State University, Detroit, Michigan, November 25, 1998.
- "Sphingomyelin-ceramide signaling and vascular function". Department of Medicine and Therapeutics, University of Glasgow, Glasgow, Scotland, January 22, 1999.
- "Sphingomyelin-ceramide signaling: Pantene Pro-V to vascular function". Department of Pharmacology, University of Michigan, Ann Arbor, Michigan, February 10, 1999.
- "Sphingomyelin-ceramide signaling: Pantene Pro-V to vascular function". Department of Pharmacology and Toxicology, Wright State University School of Medicine, Dayton, Ohio, March 4, 1999.
- "Microtubules and vascular function." Fourth U.S.-Japan Symposium on Cellular and Molecular Aspects of Vascular Smooth Muscle in Health and Disease, Honolulu, Hawaii, May 17-19, 1999.
- "Signaling mechanisms via Rho kinase in vascular smooth muscle cells". Georgetown University Hypertension Investigators Meeting, Amelia Island, Florida, January 14-17, 2000.
- "Increased vasoconstrictor sensitivity in hypertension: Augmented signaling via the rhoA/rho kinase-mediated pathway". Department of Physiology and Endocrinology, Medical College of Georgia, Augusta, Georgia, January 24, 2000.
- "Serotonin and vascular injury in hypertension." Vascular Biology Center, Medical College of Georgia, Augusta, Georgia, May 10, 2000.

- "Serotonin, St. Anthony's Fire and vascular injury in hypertension." Division of Nephrology, Department of Medicine, Tzu Chi College of Medicine and Humanities, Hualien, Taiwan, May 15, 2000.
- "Increased vasoconstrictor sensitivity in hypertension: New NO news from Georgia". Division of Nephrology, Department of Medicine, National Defense Medical Center, Taipei, Taiwan, May 16, 2000.
- "Serotonin and vascular injury in hypertension." Department of Physiology, National Defense Medical Center, Taipei, Taiwan, May 16, 2000.
- "Postdoctoral training and who wants to hit a *Homer*?" Graduate Student Convocation: The savvy postdoctoral fellow: Training, networking and opportunities in the international community. American Society for Pharmacology and Experimental Therapeutics, Boston, Massachusetts, June 5, 2000.
- "Inflammatory responses and end organ injury in hypertension." Department of Cell Biology and Anatomy, Medical College of Georgia, Augusta, Georgia, September 26, 2000.
- "Calcium channel activity and vascular responsiveness are augmented in hypertension." Division of Cardiology, Department of Medicine, Medical College of Georgia, December 14, 2000.
- "Hypertension: Vascular changes and saving mosquitoes." Deans' Symposium, Medical College of Georgia, Augusta, Georgia, February 27, 2001.
- "Rho-kinase - an enzyme for maintaining vascular tone in hypertension." Department of Pharmacology, Emory University, Atlanta, Georgia, March 13, 2001.
- "What makes vascular smooth muscle contract and relax? Three guesses." Molecular Mechanisms of Erectile Function. International Society for Sexual and Impotence Research, Rome, Italy, September 29, 2001.
- "Is there something inflammatory about vascular changes in hypertension?" Cardiovascular Research Institute, Moorehouse School of Medicine, Atlanta, Georgia, February 18, 2002.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Tenth International Symposium on Vascular Neuroeffector Mechanisms, Lake Tahoe, California, July 12-15, 2002.
- "Neural, hormonal and inflammatory mediators: Overlapping mechanisms controlling smooth muscle function." Baltimore Smooth Muscle Meeting, American Urological Association, Baltimore, Maryland, September 10, 2002.
- "Rho-kinase mechanisms in hypertension." State-of-the-Art Lecture, 56<sup>th</sup> Annual Fall Conference of the Council for High Blood Pressure Research, American Heart Association, Orlando, Florida, September 25, 2002.
- "Rho-kinase mechanisms in hypertension and penile erection." Department of Pharmacology, Scios Incorporated, Sunnyvale, California, December 13, 2002.
- "RhoA/Rho-kinase signaling and vasoconstriction: Lessons from hypertension and erectile dysfunction." Division of Investigative Biology, Cardiovascular Biology and Urogenital Diseases, Glaxo-Smith-Kline, King of Prussia, Pennsylvania, March 4, 2003.
- "Smooth muscle physiology." Refresher Course: Muscle Physiology, From Cellular to Integrative. Experimental Biology 2003, San Diego, California, April 11, 2003.
- "RhoA-mediated calcium sensitization and vasoconstriction in hypertension." State-of-the-Art Lecture, 15<sup>th</sup> Scientific Meeting of the Inter-American Society of Hypertension, San Antonio, Texas, April 30, 2003.
- "Early career mentoring-lessons from the Hypertension Summer School." Early Career Mentoring Workshop, American Heart Association, Dallas, Texas, May 18-19, 2003.
- "RhoA/Rho-kinase signaling and vasoconstriction in hypertension and erectile dysfunction." Atherosclerosis and Vascular Wall Research, Eli Lilly and Company, Indianapolis, Indiana, May 21, 2003.
- "RhoA/Rho-kinase signaling and vasoconstriction: Lessons from hypertension and erectile dysfunction." NIH Minority Access to Research Careers Program (MARC), Department

- of Natural Sciences and Mathematics, Savannah State University, Savannah, Georgia, September 11, 2003.
- "Integration of sympathetic control and inflammatory mediators in the regulation of blood pressure." Department of Natural Sciences and Mathematics, Savannah State University, Savannah, Georgia, September 11, 2003.
- "Reactive oxygen species and RhoA/Rho-kinase signaling in mineralocorticoid hypertension. A mechanism for enhanced vascular reactivity." Symposium on Mineralocorticoids and salt: New insights into blood pressure and organ damage. American Heart Association, Scientific Sessions 2003, Orlando, Florida, November 10, 2003.
- "Integration of sympathetic neural control and pro-inflammatory mediators in hypertension." Division of Cardiology, Department of Medicine, Medical College of Georgia, Augusta, Georgia, February 5, 2004.
- "Is there something inflammatory about vascular changes in hypertension?" Department of Kinesiology and Health Science, Augusta State University, Augusta, Georgia, February 25, 2004.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Keynote Address, Gulf Coast Physiological Society, Mobile, Alabama, March 5-6, 2004.
- "Mentoring: A mission to initiate and inspire." Women in Physiology Committee, American Physiological Society, Experimental Biology-04, Washington, D.C. April 28, 2004.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Keynote Address, Michigan Regional Hypertension Workshop, Kellogg Biological Station, Gull Lake, Michigan, May 6-7, 2004.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Department of Anesthesiology, Medical College of Georgia, Augusta, Georgia, August 16, 2004.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Expert Panel on Anesthetic Depth, Inflammation and Surgical Outcomes, Anesthesia Patient Safety Foundation, Boston, Massachusetts, September 21-22, 2004.
- "Ying yang of corporal smooth muscle control", State-of-the-Art Lecture, 11<sup>th</sup> World Congress of the International Society for Sexual and Impotence Research, Buenos Aires, Argentina, October 17-21, 2004.
- "Integration of sympathetic neural control and pro-inflammatory mediators in hypertension." E. Eric Muirhead Hypertension Research Day, The Cardiovascular-Renal Center of the University of Tennessee Health Science Center, Memphis, Tennessee, November 3, 2004.
- "Dynamic association of nitric oxide downstream signaling molecules with the caveolae of endothelial cells." Division of Cardiology, Department of Medicine, Emory University, Atlanta, Georgia, February 28, 2005.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Gill Heart Institute, University of Kentucky, Lexington, Kentucky, March 11, 2005.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Biological Sciences Student Association, University of Georgia, Athens, Georgia, March 22, 2005.
- "Vascular changes in hypertension: An update on the role of pro-inflammatory cytokines." Division of Cardiology, Department of Medicine, Medical College of Georgia, Augusta, Georgia, April 27, 2005.
- "Cytokines regulate reactive oxygen species and vascular function." Investigators Meeting on Cardiovascular/Kidney Diseases, Department of Medicine, Division of Nephrology and Hypertension, Georgetown University Medical Center, Amelia Island, Florida, May 27-30, 2005.
- "Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure." Institut de Recherches Servier, Suresnes, France, June 10, 2005.

- “Is there something inflammatory about vascular changes in hypertension?” Center for Nursing Research, School of Nursing, Medical College of Georgia, Augusta, Georgia, October 14, 2005.
- “Rho-kinase signaling in hypertension.” Division of Cardiology, Department of Medicine, Medical College of Georgia, Augusta, Georgia, November 28, 2005.
- “Preclinical requirements for the clinical advancement of anti-hypertensive/renal protective therapeutic approaches.” Expert Panel Meeting on Renal Protection and Hypertension, Boehringer Ingelheim Pharmaceuticals, Inc., New York, New York, March 3-4, 2006.
- “Vasoconstrictor and vasodilator properties of cytokines.” Pharmacology of Cytokines in the Cardiovascular System, Division for Systems and Integrative Pharmacology Symposium, American Society for Pharmacology and Experimental Therapeutics, San Francisco, California, April 3, 2006.
- “Dynamic association of nitric oxide downstream signaling molecules with the caveolae of endothelial cells in the corpus cavernosum.” Department of Physiology and Pharmacology, Drexel University, Philadelphia, Pennsylvania, May 1, 2006.
- “Pivotal role of cholinergic nerves in the electrical field stimulation-induced corpus cavernosum relaxation isolated from nNOS null mice.” Keynote Speaker, 11<sup>th</sup> International Vascular Neuroeffector Mechanisms and Cardiovascular Pharmacology and Medicine Symposia, Suzhou, China, June 26-29, 2006.
- “Tachyphylaxis to angiotensin II is prevented by caveolae disruption and inhibition of receptor internalization in rat aorta.” Gene and cell-based therapies for cardiovascular disease. Symposium of the 15<sup>th</sup> World Congress of Pharmacology, International Union of Basic and Clinical Pharmacology (IUPHAR-2006), Beijing, China, July 2-7, 2006.
- “Type 2 diabetes and erectile dysfunction.” 38<sup>th</sup> Congresso Brasileiro de Farmacologia e Terapeutica Experimental, Ribeirao Preto, SP, Brazil, October 20, 2006.
- “RhoA/Rho-kinase signaling and vasoconstriction: Lessons from hypertension and erectile dysfunction.” Graduate Program in Pharmacology, Universidade Federal de Santa Catarina, Florianopolis, SC, Brazil, October 23, 2006.
- “RhoA/Rho-kinase signaling and vasoconstriction: Lessons from hypertension and erectile dysfunction.” Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, Athens, Georgia, November 14, 2006.
- “Increased contraction to uridine adenosine tetraphosphate (Up4A) in aorta from DOCA hypertensive rats.” Fifth U.S.-Japan Symposium on Cellular and Molecular Aspects of Vascular Smooth Muscle in Health and Disease, Kailua-Kona, Hawaii, January 7-9, 2007.
- “Cardiovascular disease: Incidence, demographics and pathophysiology.” Pool Society Weekend, Department of Radiology, Medical College of Georgia, Augusta, Georgia, March 3, 2007.
- “Is there something inflammatory about vascular changes in hypertension?” Chinese Physiological Society, Taipei, Taiwan, March 17, 2007.
- “Integration of sympathetic neural control and inflammatory mediators in the regulation of blood pressure.” College of Life Sciences, Tzu Chi University, Hualein, Taiwan, March 19, 2007.
- “Rho-kinase and the vasculature.” XVII Scientific Sessions of the Inter-American Society of hypertension and XIV Annual Scientific Sessions of the Consortium for Southeastern Hypertension Control, Miami, Florida, May 8, 2007.
- “Cytokines, partners and strangers in the vascular changes of hypertension.” Cardiovascular Research Center, University of Iowa, Iowa City, Iowa, June 1, 2007.
- “Mechanisms of vascular hypertrophy and remodeling.” Sixth Hypertension Summer School, Council for High Blood Pressure Research, American Heart Association, Fort Collins, Colorado, July 28-August 1, 2007.
- “Making a great impression at a scientific meeting: Presenting your poster, presenting yourself.” Career Workshop, American Physiological Society, Austin, Texas, August 10, 2007.

- “Writing your first paper: The ‘ins’ and ‘outs’ of authorship.” Career Workshop, American Physiological Society, Austin, Texas, August 10, 2007.
- “Is there something inflammatory about vascular changes in hypertension?” Department of Physiology, Howard University, Washington, D.C., December 17, 2007.
- “Is there something inflammatory about vascular changes in hypertension?” Department of Pharmacology, School of Pharmacy, University of Sao Paulo, Ribeirao Preto, SP, Brazil, February 13, 2007.
- “Molecular aspects of arterial smooth muscle contraction.” VII International Symposium on Vasoactive Peptides, Ouro Preto, MG, Brazil, February 16, 2007.
- “Mentoring, a mission to inspire and initiate.” Annual Banquet, Students for Community Involvement, Medical College of Georgia, Augusta, Georgia, April 30, 2008.
- “Cellular events contributing to increased vascular reactivity in hypertension: Pyk an enzyme.” Department of Physiology, Tulane University School of Medicine, New Orleans, Louisiana, May 12, 2008.
- “Practical guides to writing grants and getting research done.” 2008 Summer Research Conference on Sexual Medicine, American Urological Association, Baltimore, Maryland, August 7-9, 2008.
- “New insights into mechanisms of vascular contraction: STIM-1/Orai-1 pathway and vascular dysfunction.” Jackson Cardiovascular Renal Meeting, University of Mississippi Medical Center, Jackson, Mississippi, October 15-18, 2008.
- “New insights into mechanisms of vascular contraction: STIM-1/Orai-1 pathway and vascular dysfunction in hypertension. Keystone Symposium, Dissecting the Vasculature: Function, Molecular Mechanisms and Malfunction. Vancouver, Canada, February 24-March 1, 2009.
- “Inflammatory cytokines and erectile dysfunction, TNF- $\alpha$  rising.” Urologic Complications of Obesity and Diabetes, sponsored by the Division of Kidney, Urologic and Hematologic Diseases, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Baltimore, Maryland, March 10-11, 2009.
- “New insights into mechanisms of vascular contraction: STIM-1/Orai-1 pathway and vascular dysfunction in hypertension.” Distinguished Lecture Series, University of South Alabama College of Medicine, Mobile, Alabama, March 12, 2009.
- “Inflammatory cytokines and erectile dysfunction, TNF- $\alpha$  rising.” Georgia Urological Association, Sixth Annual Spring Meeting and Urology Resident Research Expo, Braselton, Georgia, March 13-15, 2009.
- “Orai, the keepers of the calcium gate in vascular smooth muscle.” Department of Physiology, Medical College of Georgia, Augusta, Georgia, May 14, 2009.
- “Salicylates dilate blood vessels through inhibition of of PYK2-mediated RhoA/Rho-kinase activation Belo Horizonte, Brazil, August 7, 2009.
- “Orai, the keepers of the calcium gate in vascular smooth muscle.” Department of Biochemistry, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, August 7, 2009.
- “How to have my manuscript published.” InterAmerican Society for Hypertension XVII Scientific Sessions Belo Horizonte, Brazil, August 8, 2009.
- “The physiology of sex: Neuronal nitric oxide synthase (nNOS) trumps endothelial NOS (eNOS).” Department of Physiology and Pharmacology, George Washington University, Washington, D.C., March 3, 2010.
- “The physiology of sex: Neuronal nitric oxide synthase (nNOS) trumps endothelial NOS (eNOS).” College of Pharmacy, University of South Carolina, Columbia, South Carolina, March 23, 2010.
- “Vasoactive peptide signaling and vascular control. 14<sup>th</sup> Annual Scientific Meeting, Heart Failure Society, San Diego, California, Sep 12-15, 2010.
- “Nitroxyl anion is an endothelium-derived hyperpolarizing factor effecting vasodilation. Angelo Angeli, a nine-time Nobel nominee would have been happy! Section of Cardiology

(Grand Rounds), Department of Medicine, Georgia Health Sciences University, Augusta, Georgia, March 4, 2011.

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### Non-Peer Reviewed (Reviews, book chapters and other publications)

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## DISSERTATION COMMITTEES

1. David R. Webb, Anatomy, University of Michigan, 1982
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## **POSTDOCTORAL FELLOWS**

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11. John R. Charpie, University of Michigan, 1992-94
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13. Jong-Shiaw Jin, University of Michigan, 1995.
14. Susan A. Klarr, University of Michigan, 1995-96
15. Joyce Richey, University of Michigan, 1995-97
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RCW/M Feb2011\1