

Peter P. Sayeski

ADDRESS-

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EDUCATION-

May 1988 B. A., Physiology-Anatomy, The University of California at Berkeley.
March 1996 Ph.D., Physiology and Biophysics, The University of Alabama at Birmingham.

PROFESSIONAL EXPERIENCE-

1986-1988 Undergraduate Student Researcher, Department of Biology/Reproductive Endocrinology, The University of California at Berkeley, Berkeley, California.
1987-1988 Undergraduate Student Researcher, Department of Anatomy/Neuroanatomy, The University of California at Berkeley, Berkeley, California.
1988-1990 Research Technician, Department of Psychiatry and Behavioral Sciences, Stanford University Medical Center, Stanford, California.
1990-1996 Graduate Student, Department of Physiology & Biophysics, The University of Alabama at Birmingham School of Medicine, Birmingham, Alabama.
1996-2000 Post Doctoral Fellow, Department of Pathology, Emory University School of Medicine, Atlanta, Georgia.
2000-2006 Assistant Professor, Department of Physiology and Functional Genomics, University of Florida College of Medicine, Gainesville, Florida.
2006-2012 Associate Professor, Department of Physiology and Functional Genomics, University of Florida College of Medicine, Gainesville, Florida.
2012-present Professor, Department of Physiology and Functional Genomics, University of Florida College of Medicine, Gainesville, Florida.

ADMINISTRATIVE POSITIONS-

- 2008-present Program Director, University Scholars Program, University of Florida College of Medicine.
- 2010-present Associate Chair, Department of Physiology and Functional Genomics, University of Florida College of Medicine.
- 2013-present Associate Program Director, NIH T32 Multi-Disciplinary Training Program in Hypertension, University of Florida Health Science Center.
- 2015-present Program Director, Graduate Physiology Certificates, University of Florida College of Medicine.

ACADEMIC AFFILIATIONS-

- Member, The University of Florida Hypertension Center
- Member, The UF Health Cancer Center

INDUSTRY AFFILIATIONS-

- 2010-2012 Scientific and Business Advisory Board Member, TeraDiscoveries, Inc.
- 2013-present Collaborator, Cellworks Group, Inc.
- 2014-present Founder and Chief Scientific Officer, MyeloJAK Biomarkers, LLC

PROFESSIONAL SOCIETIES-

- American Heart Association
- American Physiological Society

FACULTY ADVISOR-

- TopSoccer, University of Florida, 2013 - present.
- UF MEDLIFE, University of Florida, 2015 - present.

PAST GRANT AWARDS-

- Endocrinology, Metabolism, and Diabetes. National Institutes of Health/Research Training Grant, Emory University, Division of Endocrinology (T32-DK07298). 05/01/1996 - 04/30/1997. Total direct costs are \$19,608.
- The Role of Src in Angiotensin II Signaling. National Institutes of Health/Individual National Research Service Award (NRSA). F32-HL09678. 05/01/1997 - 04/30/2000. Total direct costs are \$93,948.
- Structure/Function Analysis of AT₁/Jak2 Co-association. American Heart Association (National)/Scientist Development Grant (#0130041N). 01/01/2001 - 12/31/2004. Total direct costs are \$260,000.
- Characterization of Angiotensin II-mediated Stat1 Nuclear Accumulation. Howard Hughes Medical Institute Biomedical Research Pilot Project Award (#53000287). 04/01/2001 - 12/31/2003. Total direct costs are \$25,000.
- The Role of Jak2 in Cardiac Ischemia/Reperfusion. University of Florida Medical Guild Fellowship, Supervisor to Eric M. Sandberg. 01/01/03 - 12/31/03. Total direct costs are \$500.

- The Role of Jak2 in Angiotensin II Growth Responses.* National Institutes of Health/Mentor Sponsored Research Award (K01-DK60471). 05/01/2001 - 04/30/2004. Total direct costs are \$248,370.
- The Role of Jak2 in Cardiovascular Disease.* American Heart Association, Florida/Puerto Rico Affiliate Pre Doctoral Award (#0315126B). Supervisor to Eric M. Sandberg. 07/01/03 - 06/30/05. Total direct costs are \$38,000.
- Jak2 Phosphorylation Mapping and Protein Identification.* American Heart Association, Florida/Puerto Rico Affiliate Post Doctoral Award (#0425378B). Supervisor to Dr. Xianyue Ma. 07/01/04 - 06/30/06. Total direct costs are \$97,000.
- The Role of Jak2 in Mediating Angiotensin II-induced IP3 Receptor Degradation.* American Heart Association, Florida/Puerto Rico Affiliate Pre Doctoral Award (#0515284B). Supervisor to Tiffany A. Wallace. 07/01/05 - 06/30/06. Total direct costs are \$21,000.
- Mechanisms of Jak2 Tyrosine Kinase Activation and Pharmacological Inhibition.* American Heart Association, Florida/Puerto Rico Affiliate Grant in Aid (#0555359B). Principal Investigator. 07/01/05 - 06/30/07. Total direct costs are \$120,000.
- The Role of c-Src/Yes/Fyn on ERK1/2 Cellular Function.* American Heart Association, Florida/Puerto Rico Affiliate Pre Doctoral Award (#0515138B). Supervisor to Michael D. Godeny. 07/01/05 - 06/30/07. Total direct costs are \$42,000.
- Pharmacological Inhibition of Jak2 Tyrosine Kinase.* University of Florida Medical Guild Fellowship, Supervisor to Jacqueline Sayyah. 07/01/06 - 06/30/07. Total direct costs are \$500.
- Identification of Jak2 Tyrosine Kinase Inhibitors.* University of Florida Division of Sponsored Research Opportunity Fund. Principal Investigator. 07/01/07 - 12/31/08. Total direct costs are \$68,000.
- Multi-Disciplinary Training Program in Hypertension.* National Institutes of Health Training Grant (T32-HL83810). Supervisor to Jacqueline Sayyah (Dr. Chris Baylis, PI). 07/01/07 - 06/30/09. Total direct costs are \$62,718.
- Prospective Identification of JAK2 Mutations that Render Resistance to the Novel JAK2 Inhibitor G6: Development of Next Generation Inhibitors.* University of Florida / Moffitt Cancer Center Cooperative Funding Initiative (#0007-8481). Co-Principal Investigator. 12/10/08 - 12/09/09. Total direct costs are \$100,000.
- Protein Kinases and Cell Growth.* American Heart Association, Greater Southeast Affiliate Grant in Aid (#0855361E). Principal Investigator. 07/01/08 - 06/30/10. Total direct costs are \$150,000.
- Vascular Smooth Muscle Cell Specific Deletion of Jak2 and the Pathogenesis of Cardiovascular Disease.* University of Florida Medical Guild Fellowship, Supervisor to Annet Kirabo. 07/01/09 - 06/30/10. Total direct costs are \$750.
- Methylarginines and Vascular Injury.* National Institutes of Health/Independent Research Award (R01-HL81734). Co-Investigator (Dr. Arturo J. Cardounel, PI). 07/01/07 - 08/05/10.
- In Vivo Characterization of a Novel Jak2 Tyrosine Kinase Inhibitor for the Treatment of Jak2-mediated Human Pathologies.* University of Florida Clinical and Translational Science Institute (#0008-5672). Principal Investigator. 12/22/09 - 12/21/10. Total direct costs are \$25,000.

Vascular Smooth Muscle Cell Specific Deletion of Jak2 and the Pathogenesis of Cardiovascular Disease. American Heart Association, Greater Southeast Affiliate Pre Doctoral Award (10PRE4310065), Supervisor to Annet Kirabo. 07/01/10 - 06/30/12. Total direct costs are \$43,540.

Improving the Metabolic Stability of the Jak2 Inhibitor G6. The State of Florida Biomedical Research Programs/Bankhead Coley Technology Transfer Feasibility Award (2BF03). Principal Investigator. 12/01/11 - 11/30/12. Total direct costs are \$89,956.

VSMC Jak2 and the Development of Chronic Kidney Disease in Ang II-dependent Hypertension. University of Florida /Division of Nephrology Cade Renal Pilot Project Award (#0009-2091). Co-Principal Investigator (Dr. Chris Baylis). 01/01/11 - 12/31/12. Total direct costs are \$80,000.

The Role of Jak2 in Angiotensin II Signaling. National Institutes of Health/Independent Research Award (R01-HL67277-09). Principal Investigator. 04/01/08 - 03/31/12. Total direct costs are \$1,000,000. No cost extension through 03/31/14.

Vascular Ang II/Jak2 in Progression of Renal Disease. National Institutes of Health/Exploratory-Developmental Grant Award (R21-DK92476-01). Co-Principal Investigator. 09/27/12 - 08/31/13. Total direct costs are \$135,623.

CURRENT GRANT AWARDS-

The Role of Vascular Smooth Muscle Cell Derived Jak2 Tyrosine Kinase in Angiotensin II-mediated pathogenesis. Greater Southeast Affiliate of the American Heart Association Grant-in-Aid Award (13GRNT16930005). Principal Investigator. 07/01/13 - 06/30/16. Total direct costs are \$150,000.

Pre-Clinical Analysis of Novel Therapeutic Strategies. Fee-for-Service Contract with CellWorks Group, Inc. Project #0011-1274. Principal Investigator. 10/01/13 - 03/31/17. Total Direct Costs are \$48,735.

Targeting Jak2 Tyrosine Kinase for the treatment of hypertension. Greater Southeast Affiliate of the American Heart Association Grant-in-Aid Award (15GRNT25670060). Principal Investigator. 07/01/15 - 06/30/17. Total direct costs are \$150,000.

STUDY SECTIONS AND COUNCILS-

Member, American Heart Association Southern and Ohio Valley Research Consortium, Committee 5A, Cellular Cardiovascular Physiology, Pharmacology, Molecular Genetics & Molecular Signaling, July 2001 - June 2004.

Ad Hoc Reviewer, University of Florida Shands Cancer Center, Pilot Project Research Committee Study Section, University of Florida College of Medicine, 2003.

Ad Hoc Reviewer, Philip Morris External Research Program, 2004.

Ad Hoc Reviewer, Minority Biomedical Research Support (MBRS) Program, Morehouse School of Medicine, 2005.

Ad Hoc Reviewer, Office of Research and Graduate Programs, Beckman Young Investigator Award, University of Florida, 2006.

Ad Hoc Reviewer, National Science Foundation, 2006.

- Ad Hoc* Reviewer, University of Florida Shands Cancer Center, Young Investigator Award Study Section, University of Florida College of Medicine, 2006.
- Co-Chair, American Heart Association Southern and Ohio Valley Research Consortium, Committee 5A, Cellular Cardiovascular Physiology, Pharmacology, Molecular Genetics & Molecular Signaling, July 2006 - June 2007.
- Ad Hoc* Reviewer, Philip Morris External Research Program, 2007.
- Chair, American Heart Association Region II Basic Cell and Molecular Biology II Study Group, July 2007 - June 2009.
- Ad Hoc* Reviewer, National Institutes of Health, Vascular Cell and Molecular Biology (VCMB) Study Section, 2009.
- Ad Hoc* Reviewer, Basic Science Grant Review Subcommittee for the American Cancer Society Chris DiMarco Institutional Research Grant, The University of Florida Shands Cancer Center, 2010.
- Ad Hoc* Reviewer, The Special Research Program of the Austrian Science Fund, 2011.
- Ad Hoc* Reviewer, National Institutes of Health, Vascular Cell and Molecular Biology (VCMB) Study Section, 2011.
- Ad Hoc* Reviewer, National Institutes of Health, Special Emphasis Panel for the NIH Director's Early Independence Awards (DP5), 2011.
- Ad Hoc* Reviewer, University of Florida Searle Scholars Grant Review Committee, 2011.
- Ad Hoc* Reviewer, National Institutes of Health, P50 Pediatric Centers of Excellence in Nephrology (ZDK1 GRB-G) Study Section, 2012.
- Ad Hoc* Reviewer, Basic Science Grant Review Subcommittee for the American Cancer Society Chris DiMarco Institutional Research Grant, The University of Florida Shands Cancer Center, 2012.
- Ad Hoc* Reviewer, The Special Research Program of the Austrian Science Fund, 2012.
- Ad Hoc* Reviewer, Physicians' Services Incorporated (PSI) Foundation, Toronto, Ontario, Canada, 2013.
- Ad Hoc* Reviewer, National Institutes of Health, Omnibus Special Emphasis Panel, Scientific Review Group 2014/01 ZCA1 RPRB-0 (J1) S, 2013.
- Ad Hoc* Reviewer, National Institutes of Health, Omnibus Special Emphasis Panel, Scientific Review Group 2014/10 ZCA1 SRB-V (01) S, 2014.
- Ad Hoc* Reviewer, Basic Science Grant Review Subcommittee for the American Cancer Society Chris DiMarco Institutional Research Grant, The UF Health Cancer Center, 2014.
- Ad Hoc* Reviewer, National Institutes of Health, Omnibus Special Emphasis Panel, Scientific Review Group 2015/01 ZCA1 SRB-V (J1) R, 2014.
- Ad Hoc* Reviewer, National Institutes of Health, Omnibus Special Emphasis Panel, Scientific Review Group 2016/01 ZCA1 SRB-V (J1) S, 2015.
- Ad Hoc* Reviewer, Pharmacy Recurring Opportunity Seed Program for Education and Research (PROSPER), University of Florida College of Pharmacy, 2015.
- Ad Hoc* Reviewer, National Institutes of Health, NCI Research Specialist Award (R50), Scientific Review Group 2016/08 ZCA1 SRB-V (A1) S, 2016.

REVIEWER AND EDITORIAL BOARDS-

Editorial Board Member: Regulatory Peptides
Stem Cell Investigation

Ad Hoc Reviewer: Journal of Clinical Investigation, EMBO Journal, Journal of Biological Chemistry, Nature Chemical Biology, Hypertension, AJP-Cell Physiology, AJP-Renal Physiology, American Journal of Pathology, PLOS ONE, Journal of Pathology, International Journal of Cancer, Journal of Cellular Physiology, Journal of Medicinal Chemistry, ACS Medicinal Chemistry Letters, Current Medicinal Chemistry, Expert Opinion on Therapeutic Targets, Pharmaceuticals, BMC Structural Biology, Physiological Genomics, Cardiovascular Diabetology, Laboratory Investigation, Journal of Hematology and Oncology, and Regulatory Peptides.

HONOR AWARDS-

Veterans of Foreign Wars Scholarship, The University of California at Berkeley, 1983-1987.

Sophus C. Gothe Honor Award, Tau Kappa Epsilon Fraternity, The University of California at Berkeley, 1985.

Top Teke Merit Award, Tau Kappa Epsilon Fraternity, Univ. of California at Berkeley, 1986.

William C. Dement Research Award, Stanford University Medical Center, Stanford, CA, 1989.

Dean's Award, UAB Dean of Student Affairs, University of Alabama at Birmingham, 1994.

Samuel B. Barker Research Award, Dept. of Medicine, Univ. of Alabama at Birmingham, 1995.

Trainee Investigator Award, The Clinical Research Meetings, San Diego, CA, 1995.

Second Place Award, Sigma Xi Research Competition, Univ. of Alabama at Birmingham, 1995.

Dean's Award, UAB Dean of the Graduate School, University of Alabama at Birmingham, 1995.

National Graduate Achievement Award, The National Graduate Council, Wash. D.C., 1995.

Nominee, Emory University School of Medicine Nominee for the Burroughs Wellcome Career Award in the Biomedical Sciences, 1999.

Trainee Investigator Award, Keystone Symposia on the Molecular Biology of the Cardiovascular System, Snowbird, Utah, 2000.

Honorary Fellow, Council for High Blood Pressure Research of the American Heart Association, 2001.

Young Investigator Travel Award, Cardiovascular Section of the American Physiology Society, Experimental Biology Meetings, New Orleans, Louisiana, 2002.

Recognized as the top 5% of Outstanding Teachers within the College of Medicine, University of Florida, 2004.

Exemplary Teacher Award, University of Florida College of Medicine, 2005.

Exemplary Teacher Award, University of Florida College of Medicine, 2006.

Exemplary Teacher Award, University of Florida College of Medicine, 2007.

Doctoral Mentoring Award, University of Florida College of Medicine, 2008.

Exemplary Teacher Award, University of Florida College of Medicine, 2008.

Honorary Fellow, Cardiovascular Section of the American Physiological Society, 2010.

Exemplary Teacher Award, University of Florida College of Medicine, 2010.

Doctoral Mentoring Award, University of Florida College of Medicine, 2012.

Doctoral Dissertation Advisor/Mentoring Award, University of Florida Graduate School, 2012.

Exemplary Teacher, Five Year Award, University of Florida College of Medicine, 2012.
Commencement Speaker, Convocation of the Interdisciplinary Graduate Program (IDP) in Biomedical Sciences, University of Florida College of Medicine, 2013.
Exemplary Teacher Award, University of Florida College of Medicine, 2013.
Exemplary Teacher Award, University of Florida College of Medicine, 2014.
Exemplary Teacher Award, University of Florida College of Medicine, 2015.
Basic Science Teacher of the Year, University of Florida College of Medicine, 2015.
Exemplary Teacher Award, University of Florida College of Medicine, 2016.

HONOR AWARDS FOR TRAINEES-

Eric Sandberg, Travel Award to attend the 14th Annual Meeting of European Society of Hypertension, Paris, France, 2004.
Eric Sandberg, Medical Guild Research Award, University of Florida College of Medicine, 2004.
Eric Sandberg, Named a Frederick Gardner Cottrell Postdoctoral Fellow at Emory University, 2004.
Michael Godeny, Best Basic Science Poster Award, University of Florida College of Medicine Research Day, 2005.
Michael Godeny, Medical Guild Research Award, University of Florida College of Medicine, 2006.
Michael Godeny, Exemplary Teacher Award, University of Florida College of Medicine, 2006.
Jacqueline Sayyah, University Women's Club Scholarship, University of Florida, 2006.
Jacqueline Sayyah, University of Florida's Graduate Student Nominee to attend the 2007 Nobel Laureates Meeting, Lindau, Germany, 2007.
Annet Kirabo, Selected to attend the American Physiological Society's Critical First Skills Scientific Workshop, Orlando, FL, 2009.
Kavitha Gnanasambandan, International Student Award, University of Florida, 2009.
Annet Kirabo, Carolyn tum Suden/Francis A. Hellebrandt Professional Opportunity Award from the American Physiological Society, 2010.
Sung Park, Travel Award to attend the 52nd Annual Meeting of the American Society of Hematology, Orlando, FL, 2010.
Kavitha Gnanasambandan, Travel Award from the American Society for Biochemistry and Molecular Biology to attend the Experimental Biology Meeting, Washington DC, 2011.
Annet Kirabo, Minority Travel Award from the American Physiological Society/NIDDK to attend the Experimental Biology Meeting, Washington DC, 2011.
Sung Park, Best in Research Award, University of Florida Hematological Malignancies Symposium, Gainesville, FL, 2012.
Sung Park, Physiological Genomics Research Award, Experimental Biology Meeting, San Diego, CA, 2014.

TEACHING (Non Faculty Assignments) -

Teaching Assistant, Dental Physiology (PHY 701), Univ. of Alabama at Birmingham, 1991.
Teaching Assistant, Graduate Biochemistry (CMB 701), Univ. of Alabama at Birmingham, 1991.
Teaching Assistant, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1992.
Laboratory Instructor, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1992.
Lecturer, Physiology for Nurse Anesthetists (ANS 318), Univ. of Alabama at Birmingham, 1993.

Laboratory Instructor, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1993.
Teaching Assistant, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1993.
Laboratory Instructor, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1994.
Teaching Assistant, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1994.
Lecturer, Physiology for Biomedical Engineers (BME 510-710), University of Alabama at Birmingham, 1994.
Laboratory Instructor, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1995.
Lecturer, Physiology for Biomedical Engineers (BME 510-710), University of Alabama at Birmingham, 1995.
Teaching Assistant, Medical Physiology (PHY 700), Univ. of Alabama at Birmingham, 1995.
Lecturer, Physiology for Surgeon Assistants (SA 305), Univ. of Alabama at Birmingham, 1995.
Teaching Assistant, Medical Genetics (MEDI 545), Emory University School of Medicine, 1998.

TEACHING (Faculty Assignments at the University of Florida)

2000-2001 ACADEMIC YEAR

Lecturer, Physiology for Dental Students (DEN 5120C)

2001-2002 ACADEMIC YEAR

Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Course on Signal Transduction and Cancer (GMS 6001)
Lecturer, Physiology for Dental Students (DEN 5120C)
Lecturer, IDP Course on Fundamentals of Physiology (GMS 6002)

2002-2003 ACADEMIC YEAR

Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Discussion Group Leader, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Advanced Course on Vascular Biology (GMS 6410)
Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Discussion Group Leader, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Co-Course Director, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)

2003-2004 ACADEMIC YEAR

Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Discussion Group Leader, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Advanced Course on Vascular Biology (GMS 6410)

Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Discussion Group Leader, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Co-Course Director, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)

2004-2005 ACADEMIC YEAR

Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Discussion Group Leader, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Advanced Course on Vascular Biology (GMS 6410)
Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Discussion Group Leader, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2005-2006 ACADEMIC YEAR

Lecturer, IDP Course on the Mechanisms of Hypertension (GMS 6413)
Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Discussion Group Leader, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Discussion Group Leader, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2006-2007 ACADEMIC YEAR

Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Discussion Group Leader, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, Medical Physiology/Respiratory Physiology for Physician Assistants (PAS 5025)

Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2007-2008 ACADEMIC YEAR

Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, IDP Advanced Course on Vascular Biology (GMS 6410)
Lecturer, Medical Physiology/Respiratory Physiology for Physician Assistants (PAS 5025)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Course on Signal Transduction Mechanisms (GMS 6001)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Physiology for Dental Students (DEN 5120C)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2008-2009 ACADEMIC YEAR

Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, Essentials of Graduate Research and Professional Development (GMS 6003)
Lecturer, Medical Physiology/Respiratory Physiology for Physician Assistants (PAS 5025)
Co-Course Director, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Course Director, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2009-2010 ACADEMIC YEAR

Course Director, Journal Club in Physiology and Functional Genomics (GMS 6491)
Lecturer, Essentials of Graduate Research and Professional Development (GMS 6003)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2010-2011 ACADEMIC YEAR

Lecturer, Essentials of Graduate Research and Professional Development (GMS 6003)
Lecturer, IDP Advanced Course on Signal Transduction (GMS 6051)
Assistant Course Director, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, IDP Course on Fundamentals of Physiology and Functional Genomics (GMS 6008)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)

2011-2012 ACADEMIC YEAR

Lecturer, Essentials of Graduate Research and Professional Development (GMS 6003)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Fundamentals of Physiology & Functional Genomics II (GMS 6472)
Section Leader, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology Section (GMS 6406)
Visiting Lecturer, American University of the Caribbean, St. Maarten, Dutch West Indies,
Physiology II (NEPHY 323)

2012-2013 ACADEMIC YEAR

Course Director, Human Physiology (BSC 3096)
Lecturer, Human Physiology (BSC 3096)
Course Director, Advanced Cardiovascular Physiology (GMS 6410)
Lecturer, Advanced Cardiovascular Physiology (GMS 6410)
Section Leader, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Fundamentals of Physiology & Functional Genomics II (GMS 6472)
Section Leader, The Cardiovascular and Respiratory Systems (BMS 6633)
Lecturer, The Cardiovascular and Respiratory Systems (BMS 6633)
Section Leader, Medical Physiology/Respiratory Physiology (GMS 6406)
Lecturer, Medical Physiology/Respiratory Physiology (GMS 6406)
Course Director, Advanced Cardiovascular Physiology (GMS 6410) (Summer A term)
Lecturer, Advanced Cardiovascular Physiology (GMS 6410) (Summer A term)

2013-2014 ACADEMIC YEAR

Course Director, Human Physiology (BSC 3096)
Lecturer, Human Physiology (BSC 3096)
Co-Course Director, Advanced Signal Transduction (GMS 6051)
Lecturer, Advanced Signal Transduction (GMS 6051)
Course Director, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2013, Fall 2013, and Spring 2014)
Lecturer, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2013, Fall 2013, and Spring 2014)
Section Leader, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Fundamentals of Physiology & Functional Genomics II (GMS 6472)
Associate Course Director, The Cardiovascular and Respiratory Systems (BMS 6633)
Section Leader, The Cardiovascular and Respiratory Systems (BMS 6633)
Lecturer, The Cardiovascular and Respiratory Systems (BMS 6633)

2014-2015 ACADEMIC YEAR

Course Director, Human Physiology in Translation (BMS 3521)
Lecturer, Human Physiology in Translation (BMS 3521)

Lecturer, Advanced Signal Transduction (GMS 6051)
Course Director, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2014, Fall 2014, and Spring 2015)
Lecturer, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2014, Fall 2014, and Spring 2015)
Section Leader, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Fundamentals of Physiology & Functional Genomics II (GMS 6472)
Course Director, Advanced Cardiovascular Physiology (GMS 6410)
Lecturer, Advanced Cardiovascular Physiology (GMS 6410)
Course Director, Respiratory Systems (BMS 6642)
Lecturer, Respiratory Systems (BMS 6642)

2015-2016 ACADEMIC YEAR

Course Director, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2015, Fall 2015, and Spring 2016)
Lecturer, Medical Physiology/Respiratory Physiology (GMS 6406) (Summer 2015, Fall 2015, and Spring 2016)
Course Director, Advanced Cardiovascular Physiology (GMS 6410) (Summer 2015, Fall 2015, and Spring 2016)
Lecturer, Advanced Cardiovascular Physiology (GMS 6410) (Summer 2015, Fall 2015, and Spring 2016)
Lecturer, Advanced Signal Transduction (GMS 6051)
Section Leader, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Structure and Function of Body Systems (DEN 5120C)
Lecturer, Fundamentals of Physiology & Functional Genomics II (GMS 6472)
Course Director, Respiratory Systems (BMS 6642)
Lecturer, Respiratory Systems (BMS 6642)

PRECEPTOR: GRADUATE THESIS COMMITTEE CHAIRMAN-

Eric M. Sandberg, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2001- 2004.
Tiffany A. Wallace, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002 - 2005.
Michael D. Godeny, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2003 - 2006.
Issam McDoom, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004 - 2007.
Jacqueline Sayyah, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2005 - 2009.
Annet Kirabo, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008 - 2011.

Anurima Majumder, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008 - 2011.

Kavitha Gnanasambandan, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008 - 2011.

Rebekah Baskin, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2009 - 2012.

Chevonne Horvath, (Masters of Science Student) Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2014 - present.

PRECEPTOR: GRADUATE THESIS COMMITTEE MEMBER-

Melissa Fleegal, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2001 - 2002.

Shuzhen Chen, Department of Pharmacology and Therapeutics, University of Florida College of Medicine, 2001 - 2004.

Matthew Huentelman, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2003.

Jason Gersting, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2003 - 2008.

Melanie Powers, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004 - 2006.

Jason O'Rourke, Department of Molecular Genetics and Microbiology, University of Florida College of Medicine, 2004 - 2009.

Rachael Harrison, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004 - 2008.

Seth Reini, Department of Pharmacodynamics, University of Florida College of Pharmacy, 2004 - 2008.

Bill Warrington, Department of Adult and Elderly Nursing, University of Florida College of Nursing, 2005 - 2008.

Yiding Chen, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2005 - 2006.

Matthew Murawski, Department of Pathology & Laboratory Medicine, University of Florida College of Medicine, 2005 - 2006.

Rebecca Loda, Department of Molecular Genetics and Microbiology, University of Florida College of Medicine, 2005 - 2009.

Lisa Stow, Department of Medicine/Division of Nephrology & Hypertension, University of Florida College of Medicine, 2006 - 2009.

Stephen Fernando, Department of Pharmacology and Therapeutics, University of Florida College of Medicine, 2006 - 2009.

Mercedes Rivera, Department of Oral Biology, University of Florida College of Dentistry, 2007 - 2010.

Arthur Pope, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2007 - 2009.

- Katherine Hankowski, Department of Pathology and Laboratory Medicine, University of Florida College of Medicine, 2007 - 2011.
- Ha-Long Nguyen, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2007 - 2011.
- Lawrence Tartaglia, Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, 2008 - 2013.
- Patrick Kearns, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008 - 2010.
- Soni Warren, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2009 - 2011.
- Mark Cunningham, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2010 - 2014.
- Stephan Jahn, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, 2010 - 2013.
- Dhivya Sudhan, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, 2010 - 2013.
- Chul Han, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2010 - 2011.
- Kevin Strehler, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, 2010 - 2013.
- Bei Chen, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2011 - 2014.
- Tal Salz, Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, 2011 - 2014.
- Yong-Hwan Kim, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2011 - 2013.
- Xuyang Song, Department of Pharmaceutics, University of Florida College of Pharmacy, 2012 - present.
- Emma Hyddmark, Department of Orthopaedics and Rehabilitation, University of Florida College of Medicine, 2012 - 2016.
- Colleen Cole, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2012 - present.
- Lizzi Butterworth, Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, 2012 - 2013.
- Ramya Sivakumar, Department of Pathology & Laboratory Medicine, University of Florida College of Medicine, 2012 - present.
- Stephen Chrzanowski, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2012 - 2016.
- Veronica Hughes, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, 2013 - present.
- Kristen Solocinski, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2014 - present.

Cody Kilar, Department of Medicine/Division of Nephrology & Hypertension, University of Florida College of Medicine, 2014 - present.

Kelly DeMars, Department of Neuroscience, University of Florida College of Medicine, 2016 - present.

Mengxiong Wang, Department of Pharmacology & Therapeutics, University of Florida College of Medicine, 2016 - present.

PRECEPTOR: GRADUATE THESIS EXAMINATION COMMITTEE MEMBER-

Yi Tang, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2001.

Beverly Metcalfe, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2001.

PRECEPTOR: GRADUATE STUDENT RESEARCH ROTATION SUPERVISOR-

Tiffany Wallace, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002.

Jason Blum, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002.

Rachael Harrison, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002.

Michael Godeny, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2003.

Issam McDoom, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2003.

Melissa Armas, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004.

Xinyi Wang, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004.

Rachael Watson, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2005.

Jacqueline Sayyah, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2005.

Tolunay Beker Aydemir, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2007.

Mercedes Rivera, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2007.

Sushama Kamarajugadda, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2007.

Annet Kirabo, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008.

Kyle Lee, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008.

Anurima Majumder, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008.

Kavitha Gnanasambandan, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2008.

Rebekah Baskin, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2009.

PRECEPTOR: POST DOCTORAL TRAINEE SUPERVISOR-

Dr. Xianyue Ma, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2001 - 2006.

Dr. Sung Park, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2009 - 2011.

PRECEPTOR: OTHER CAPACITIES-

Research Supervisor, Research Internship for Nicole Gasiorek, The Academy of Environmental Sciences Intern Program at the University of Florida, 2003.

Research Supervisor, Research Internship for Shakira Sanchez-Collins, NIH Short-Term Research Training for Minority Students Program, University of Florida College of Medicine, 2005.

Research Supervisor, Research Internship for Amit Sood, University of Florida Student Science Training Program (SSTP), University of Florida College of Medicine, 2005.

Research Supervisor, Research Internship for Shakira Sanchez-Collins, NIH Short-Term Research Training for Minority Students Program, University of Florida College of Medicine, 2006.

Research Supervisor, Research Internship for Joshua Smith, University Scholars Program, University of Florida, 2007-2008.

SERVICE-

Member, Malcolm X Tutoring Service, University of California at Berkeley, 1985-1988.

Senator, Graduate Student Senate, University of Alabama at Birmingham, 1990-1994.

Member, Committee for Volunteer Services, University of Alabama at Birmingham, 1991.

Volunteer, Student Career Health Day, University of Alabama at Birmingham, 1992.

Chair, Graduate Committee for Travel Grant Reform, Univ. of Alabama at Birmingham, 1992.

Member, Committee to Select Basic Science Teacher of the Year, Univ of Ala at Birmingham, 1992.

Member, Graduate Student Committee to Select Dean of the Graduate School, University of Alabama at Birmingham, 1992.

Member, Graduate Student Orientation Committee, University of Alabama at Birmingham, 1992.

Member, Board of Student Publications, University of Alabama at Birmingham, 1992-1993.

Chair, Political Action Committee, University of Alabama at Birmingham, 1992-1993.

Member, Program Allocation Board, University of Alabama at Birmingham, 1993.

Member, Committee to Select Student Publications Advisor, Univ. of Ala at Birmingham, 1993.

Member, Cultural Activities Committee, University of Alabama at Birmingham, 1993-1994.

President, Graduate Student Association, University of Alabama at Birmingham, 1993-1994.

Volunteer, Career Workshop Series, Office of Postdoctoral Programs, Emory University, 2000.

- Member, Selection Committee, University Scholars Program, University of Florida College of Medicine, 2001.
- Member, Membership Committee, North American Vascular Biology Organization, 2001-2002.
- Member, Subcommittee on Departmental Purchasing, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002.
- Member, Medical Guild Graduate Student Competition Judging Committee, University of Florida College of Medicine, 2002.
- Symposia Chair, National Institutes of Health Short Term Research Training Symposia for Minority Students, 2002.
- Volunteer, Mini Medical School Education Program, Center for Pre-Collegiate Education and Training, University of Florida, 2002.
- Chair, Faculty Search Committee, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2002-2003.
- Member, Interdisciplinary Program (IDP) in Biomedical Sciences Admissions Committee, University of Florida College of Medicine, 2002-2005.
- Member, Physiology/Pharmacology Advanced Concentration Graduate Student Competition Judging Committee, University of Florida College of Medicine, 2003.
- Member, Interdisciplinary Program (IDP) in Biomedical Sciences Advisory Board, University of Florida College of Medicine, 2004-present.
- Member, Faculty Search Committee, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2004-2005.
- Member, Faculty Search Committee, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2006.
- Volunteer, Mini Medical School Education Program, Center for Pre-Collegiate Education and Training, University of Florida, 2006.
- Member, Committee to Select the Dissertation Advisor/Mentoring Award, University of Florida College of Medicine, 2006.
- Volunteer, Mini Medical School Education Program, Center for Pre-Collegiate Education and Training, University of Florida, 2007.
- Member, Interdisciplinary Program (IDP) in Biomedical Sciences Admissions Committee, University of Florida College of Medicine, 2008.
- Volunteer, Mini Medical School Education Program, Center for Pre-Collegiate Education and Training, University of Florida, 2009.
- Member, Medical Student Research Day Judging Committee, University of Florida College of Medicine, 2010.
- Member, Animal Care Services (ACS) and Institutional Animal Care & Use Committee (IACUC) User Group, University of Florida College of Medicine, 2011- 2012.
- Member, Faculty Council, University of Florida College of Medicine, 2011- present.
- Volunteer, Medical Explorations Program, Center for Pre-Collegiate Education and Training, University of Florida, 2011.
- Volunteer, Mini Medical School Education Program, Center for Pre-Collegiate Education and Training, University of Florida, 2011.

- Volunteer, Junior Science Engineering and Humanities Symposium, Center for Pre-Collegiate Education and Training, University of Florida, 2012.
- Co-Chair, Trainee Advisory Committee, Physiological Genomics Steering Committee of the American Physiological Society, 2012-present.
- Member, Medical Student Research Day Judging Committee, University of Florida College of Medicine, 2012.
- Member, University of Florida Faculty Senate, 2012-2015.
- Member, Committee to Select the Dissertation Advisor/Mentoring Award, University of Florida College of Medicine, 2013.
- Member, Committee to Select the Faculty Post Doctoral Mentoring Award, University of Florida Office of the Provost, 2013.
- Member, Doctoral Dissertation Advising/Mentoring Awards Committee, University of Florida Graduate School, 2013.
- Member, Thomas Maren Post Doctoral Awards Committee, University of Florida College of Medicine, 2013.
- Member, Medical Guild Research Competition Judging Committee, University of Florida College of Medicine, 2013.
- Member, Faculty Compensation Committee, University of Florida College of Medicine, 2013-2015.
- Member, Search Committee for the Chair of the Department of Ophthalmology, University of Florida College of Medicine, 2013-2015.
- Member, Graduate Programs Sub-Committee for accreditation by the Liaison Committee on Medical Education (LCME), University of Florida College of Medicine, 2014.
- Member, Faculty Search Committee, Department of Physiology and Functional Genomics, University of Florida College of Medicine, 2014.
- Member, Faculty Search Committee, Department of Physiology and Functional Genomics, Lecturer Position, University of Florida College of Medicine, 2014.
- Member, Search Committee for the University of Florida Faculty Ombuds, 2014.
- Member, Medical Student Research Day Judging Committee, University of Florida College of Medicine, 2014.
- Member, Academic Status Committee, University of Florida College of Medicine, 2014.
- Member, Task Force for Undergraduate Education, Office of the Provost, University of Florida, 2014-2015.
- Member, Committee to Select the Dissertation Advisor/Mentoring Award, University of Florida Graduate School, 2015.
- Member, Masters of Science (M.S.) Program Admissions Committee, University of Florida College of Medicine, 2015.
- Member, Graduate Programs External Review Committee, University of Florida College of Pharmacy, 2015.
- Member, Medical Student Interview Committee, University of Florida College of Medicine, 2015-2017.
- Member, Medical Curriculum Committee, University of Florida College of Medicine, 2015-2018.
- Member, Task Force for Graduate Mentoring, University of Florida Graduate School, 2015.
- Member, Committee for Dental Accreditation, University of Florida College of Dentistry, 2015.

Member, Committee to Select the Dissertation Advisor/Mentoring Award, University of Florida Graduate School, 2016.

Chair, Course Director's Committee, University of Florida College of Medicine, 2016-2019.

Member, Committee on Scientific Sessions Program, American Heart Association, 2016.

Member, Committee for Program Evaluation and Student Assessment (CPESA), University of Florida College of Medicine, 2016-present.

INVITED LECTURES AND SEMINARS-

Department of Medicine, Division of Nephrology, The University of Alabama at Birmingham, 1994.

Department of Medicine, Division of Hypertension, The Univ. of Alabama at Birmingham, 1995.

Department of Pathology and Laboratory Medicine, Emory University School of Medicine, 1996.

Department of Medicine, Division of Endocrinology, Emory University School of Medicine, 1996.

Department of Pathology and Laboratory Medicine, Emory University School of Medicine, 1999.

Department of Medicine, Division of Cardiology, Emory University School of Medicine, 1999.

Department of Physiology, University of Texas Health Science Center at San Antonio, 1999.

Department of Physiology, University of Tennessee, Memphis, 1999.

Department of Pharmacology & Toxicology, Dartmouth College of Medicine, 1999.

Department of Physiology, University of Kentucky, 2000.

Department of Physiology and Biophysics, University of Nebraska Medical Center, 2000.

Department of Cellular and Molecular Physiology, Univ. of North Carolina at Chapel Hill, 2000.

School of Biological Sciences, University of Missouri at Kansas City, 2000.

Department of Physiology and Biophysics, Michigan State University, 2000.

Department of Physiology, University of Florida College of Medicine, 2000.

Cardiovascular Research Institute, Texas A&M University, 2000.

Department of Pathology & Laboratory Medicine, The University of Alabama at Birmingham, 2000

Gordon Research Conference on Angiotensin, Ventura, CA, 2001.

Weinstein Cardiovascular Development Conference, Dallas, TX, 2001.

Department of Pharmaceutics and Pharmacodynamics, Univ. of Florida College of Pharmacy, 2001.

Department of Medicine, Division of Nephrology, Hypertension & Renal Transplant, University of Florida College of Medicine, 2002.

Shands Cancer Center, University of Florida College of Medicine, 2003.

Cardiovascular Research Institute, Morehouse University School of Medicine, 2004.

Shands Cancer Center, University of Florida College of Medicine, 2005.

Shands Cancer Center, University of Florida College of Medicine, 2006.

Florida Biochemical Meeting and Exposition, Orlando, FL, 2007.

H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL, 2007.

Department of Medicinal Chemistry, University of South Florida, Tampa, FL, 2007.

Molecular Medicine: Applying Current and Emerging Technologies Conference, Lake Buena Vista, FL, 2008.

The Endocrine Society's 90th Annual Meeting, San Francisco, CA, 2008.

Florida Biochemical Meeting and Exposition, Orlando, FL, 2008.

Department of Physiology and Biophysics, University of Alabama at Birmingham, 2009.

American Heart Association Regional Fundraiser, Jupiter, FL, 2009.

Department of Experimental Pathology, Cedars-Sinai Medical Center, 2010.
Session Co-Chair and Invited Speaker, PepCon 2010, Beijing, China, 2010.
Center for Emerging Technologies, Santa Fe College, 2010.
H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL, 2010.
Department of Physiological Sciences, University of Florida College of Veterinary Medicine, 2010.
Shands Cancer Center, University of Florida College of Medicine, 2010.
Center for Emerging Technologies, Santa Fe College, 2011.
Department of Global Computational Chemistry, Eli Lilly & Company, Indianapolis, IN, 2011.
16th Congress of the European Hematology Association, London, England, 2011.
FASEB Science Research Conference on Smooth Muscle, Snowmass Village, CO, 2012.
FASEB Science Research Conference on Growth Hormone/Prolactin, Snowmass Village, CO, 2012.
Cancer Biology Program, H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL, 2012.
Division of Nephrology & Hypertension, University of Florida College of Medicine, 2013.
UF Health Cancer Center, University of Florida, 2013.

SUBMISSIONS TO NATIONAL DATABASES-

Murine glutamine:fructose-6-phosphate amidotransferase (GFAT) encoding cDNA. *Accession # U00932*, GenBank, 1994.
Murine glutamine:fructose-6-phosphate amidotransferase (GFAT) 5' genomic promoter sequence. *Accession # U39442*, GenBank, 1997.
Murine Jak2 genomic DNA sequence from a BAC clone. *Accession # AY785782*, BankIt, 2004.

PATENTS-

Vaccinia Virus-mediated High Level Expression and Single Step Purification of Recombinant Jak2 Protein (2003) Xianyu Ma and Peter P. Sayeski. U.S. Patent Application No. 60/443,042.
Methods and Compositions for Modulating JAK2 Activity (2004) Eric M. Sandberg and Peter P. Sayeski. U.S. Patent Application No. 60/554,256.
Kinase Inhibitor Compounds (2007) Peter P. Sayeski. UF #12435. U.S. Provisional Patent Application No. 60/933,449 filed on June 6, 2007 and PCT application filed on June 5, 2008. Final patent No. 8,367,078 issued on February 5, 2013.
Jak2 Tyrosine Kinase, Myeloproliferative Disorders, and Small Molecule Inhibitors (2008) Peter P. Sayeski. UF #13044. U.S. Provisional Patent Application No. 61/201,406 filed on December 9, 2008 and PCT application filed on December 9, 2009.
Vimentin as a Biomarker for the Progression of Myeloproliferative Neoplasms (2011) Peter P. Sayeski. UF #13842. U.S. Provisional Patent Application No. 61/513,314 filed on July 29, 2011 and PCT application filed on July 27, 2012. PCT was converted to US utility application on April 1, 2014.
Polyamine Sulfonamides and Uses Thereof (2015) Peter P. Sayeski *et al.* UF #15919. U.S. Provisional Patent Application No. 62/250,983 filed on November 4, 2015.

AUTHORED SOFTWARE-

Sphere Generator (Sphgen) for DOCK Analysis in C++ (2006) Andrew Magis and Peter P. Sayeski, http://dock.compbio.ucsf.edu/Contributed_Code/sphgen_cpp.htm

Sphere Selector (Sphere_select) for DOCK Analysis in C++ (2006) Andrew Magis and Peter P. Sayeski, http://dock.compbio.ucsf.edu/Contributed_Code/sphere_select.htm

SPECIALIZED TRAINING AND TECHNIQUES-

Small animal handling of rabbits, rats and mice. Manipulation and examination of animal tissues via histology, microtomy, cryomicrotomy, surgery, stereotaxic microsurgery, necropsy, enzyme histochemistry and radioimmuno assay. Culturing of mammalian cells. Molecular biology techniques including library screening, cloning, Southern/Northern analysis, DNA sequencing, cDNA synthesis, primer extension, PCR, DNA mediated transfection, generation of stable cell lines, luciferase assays, DNaseI footprinting, EMSA and Affymetrix microarray analysis of differential gene expression. Protein biochemistry including SDS-PAGE, immunoprecipitation, Western blotting, protein phosphorylation/glycosylation, *in vitro* kinase assays and ³²P/³⁵S labeling of proteins *in vitro* and *in vivo*. Large scale expression and purification of *E. Coli* and vaccinia virus expressed proteins. Analysis of protein/protein interaction via co-immunoprecipitation, GST pull downs and surface plasmon resonance. Transduction electron microscopy, confocal microscopy, immunofluorescent imaging, photography and computers. Identification and characterization of tyrosine kinase small molecule inhibitors. Mouse models of human disease.

BOOK CHAPTERS-

Sayeski PP and Ali MS. Understanding AT₁ Receptor Signaling, in *Focus on Cellular Signaling Research*, edited by Dorothy T. Leeds, Nova Science Publishers, pp 1-27, 2006.

PUBLICATIONS-

1. Edgar DM, Seidel WF, Martin CE, **Sayeski PP** and Dement WC. Triazolam fails to induce sleep in suprachiasmatic nucleus-lesioned rats. *NeuroScience Letters* 125:125-128, 1991.
2. Nabell LM, Raja RH, **Sayeski PP**, Paterson AJ and Kudlow JE. HIV-1 TAT stimulates transcription of the transforming growth factor- α gene in an epidermal growth factor-dependent manner. *Cell Growth and Differentiation* 5:87-93, 1994.
3. **Sayeski PP**, Paterson AJ and Kudlow JE. The murine glutamine:fructose-6-phosphate amidotransferase-encoding cDNA sequence. *Gene* 140:289-290, 1994.
4. **Sayeski PP** and Kudlow JE. Glucose metabolism to glucosamine is necessary for glucose stimulation of transforming growth factor- α gene transcription. *J. Biol. Chem.* 271(25): 15237-15243, 1996.
5. **Sayeski PP**, Wang D, Su K, Han IO and Kudlow JE. Cloning and partial characterization of the mouse glutamine:fructose-6-phosphate amidotransferase (GFAT) gene promoter. *Nucleic Acid Res.* 25(7):1458-1466, 1997.

6. Harp JB, **Sayeski PP**, Scanlon M, Bernstein KE and Marrero MB. Role of intracellular calcium in the angiotensin II-mediated tyrosine phosphorylation and dephosphorylation of PLC- γ 1. *Biochem. & Biophys. Res. Comm.* 232:540-544, 1997.
7. Ali MS, **Sayeski PP**, Hayzer DJ, Dirksen LB, Marrero MB and Bernstein KE. Dependence of the motif YIPP for the physical association of Jak2 kinase with the intracellular carboxyl tail of the angiotensin II AT₁ receptor. *J. Biol. Chem.* 272(37):23382-23388, 1997.
8. Bernstein KE, Ali MS, **Sayeski PP**, Semeniuk D and Marrero MB. New insights into the cellular signaling of seven transmembrane receptors: the role of tyrosine phosphorylation. (Review) *Laboratory Investigation* 78:1-5, 1998.
9. **Sayeski PP**, Ali MS, Harp JB, Marrero MB and Bernstein KE. Phosphorylation of p130Cas by angiotensin II is dependent on c-Src, intracellular Ca⁺⁺, and protein kinase C. *Circulation Res.* 81(12):1279-1288, 1998.
10. Ali MS, **Sayeski PP**, Safavi A, Lyles M. and Bernstein KE. Janus kinase 2 (Jak2) must be catalytically active to associate with the AT₁ receptor in response to angiotensin II. *Biochem. & Biophys. Res. Comm.* 249:672-677, 1998.
11. **Sayeski PP**, Ali MS, Semeniuk DJ, Doan TN and Bernstein KE. Angiotensin II signal transduction pathways. (Review) *Regulatory Peptides* 78:19-29, 1998.
12. **Sayeski PP**, Ali MS, Hawks K, Frank SJ and Bernstein KE. The angiotensin II-dependent association of Jak2 and c-Src requires the N-terminus of Jak2 and the SH2 domain of c-Src. *Circulation Res.* 84:1332-1338, 1999.
13. **Sayeski PP**, Ali MS, Safavi A, Lyles M, Kim SO, Frank SJ and Bernstein KE. A catalytically active Jak2 is required for the angiotensin II-dependent activation of Fyn. *J. Biol. Chem.* 274:33131-33142, 1999.
14. Ali MS, **Sayeski PP** and Bernstein KE. Jak2 acts as both a Stat1 kinase and as a molecular bridge linking Stat1 to the angiotensin II AT₁ receptor. *J. Biol. Chem.* 275:15586-15593, 2000.
15. **Sayeski PP**, Ali MS and Bernstein KE. The role of Ca⁺⁺ mobilization and heterotrimeric G protein activation in mediating tyrosine phosphorylation signaling patterns in vascular smooth muscle cells. *Mol. Cell. Biochem.* 212:91-98, 2000.
16. **Sayeski PP**, Ali MS, Frank SJ and Bernstein KE. The angiotensin II-dependent nuclear translocation of Stat1 is mediated by the Jak2 protein motif ²³¹YRFRR. *J. Biol. Chem.* 276:10556-10563, 2001.

17. **Sayeski PP** and Bernstein KE. Signal transduction mechanisms of the angiotensin II type AT₁ receptor: looking beyond the heterotrimeric G protein paradigm. (Review) *J. Renin Angiotensin Aldosterone System* 2:4-10, 2001.
18. Bernstein KE, **Sayeski PP**, Doan T, Farmer PK and Ali MS. Signal transduction pathways of angiotensin II in the kidney. (Review) *Contributions to Nephrology; Renin Angiotensin System and Progression of Renal Disease* 135:16-33, 2001.
19. VonDerLinden D, Ma X, Sandberg EM, Gernert K, Bernstein KE and **Sayeski PP**. Mutation of glutamic acid residue 1046 abolishes Jak2 tyrosine kinase activity. *Mol. Cell. Biochem.* 241:87-94, 2002.
20. **Sayeski PP** and Ali MS. The critical role of c-Src and the Shc/Grb2/ERK2 signaling pathway in angiotensin II-dependent VSMC proliferation. *Exp. Cell Res.* 287:339-349, 2003.
21. He K, Wang X, Jiang J, Guan R, Bernstein KE, **Sayeski PP** and Frank SJ. JAK2 determinants for GH receptor association, surface assembly, and signaling. *Mol. Endocrinol.* 17:2211-2227, 2003.
22. Sandberg EM, Ma X, VonDerLinden D, Godeny MD and **Sayeski PP**. Jak2 tyrosine kinase mediates angiotensin II-dependent inactivation of ERK2 via induction of MAP kinase phosphatase 1 (MKP-1). *J. Biol. Chem.* 279:1956-1967, 2004.
23. Ma X and **Sayeski PP**. Vaccinia virus-mediated high level expression and single step purification of recombinant Jak2 protein. *Protein Expression and Purification* 35:181-189, 2004.
24. Sandberg EM and **Sayeski PP**. Jak2 tyrosine kinase mediates oxidative stress-induced apoptosis in vascular smooth muscle cells. *J. Biol. Chem.* 279:34547-34552, 2004.
25. Wallace TA, VonDerLinden D, and **Sayeski PP**. Microarray analyses identify Jak2 tyrosine kinase as a key mediator of ligand-independent gene expression. *Amer. J. Physiol.; Cell Physiol.* 287:C981-C991, 2004.
26. Jiang J, Wang X, He K, Li X, Chen C, **Sayeski PP**, Waters MJ, and Frank SJ. A conformationally-sensitive growth hormone receptor antibody: impact on GH signaling and GHR proteolysis. *Mol. Endocrinol.* 18:2981-2996, 2004.
27. Sandberg EM, Wallace TA, Godeny MD, VonDerLinden D and **Sayeski PP**. Jak2 Tyrosine Kinase: A True Jak of All Trades? (Review) *Cell Biochem. and Biophys.* 41:207-232, 2004.
28. Sandberg EM, VonDerLinden D, Ostrov DA and **Sayeski PP**. Jak2 tyrosine kinase residues glutamic acid 1024 and arginine 1113 form a hydrogen bond interaction that is essential for Jak-STAT signal transduction. *Mol. Cell. Biochem.* 265:161-169, 2004.

29. Sandberg EM, Ma X, He K, Frank SJ, Ostrov DA and **Sayeski PP**. Identification of 1,2,3,4,5,6-hexabromocyclohexane as a small molecule inhibitor of Jak2 tyrosine kinase autophosphorylation. *J. Med. Chem.* 48:2526-2533, 2005.
30. Wallace TA, Xia SL and **Sayeski PP**. Jak2 tyrosine kinase prevents angiotensin II-mediated inositol 1,4,5 trisphosphate receptor degradation. *Vascular Pharm.* 43:336-345, 2005.
31. Wallace TA and **Sayeski PP**. Jak2 tyrosine kinase: a mediator of both housekeeping and ligand-dependent gene expression? (Review) *Cell Biochem. and Biophys.* 44:213-222, 2006.
32. Godeny MD and **Sayeski PP**. Ang II-induced cell proliferation is mediated by c-Src/Yes/Fyn-regulated ERK1/2 activation in the cytoplasm and PKC ζ -controlled ERK1/2 within the nucleus. *Amer. J. Physiol.; Cell Physiol.* 291:C1297-1307, 2006.
33. Godeny MD and **Sayeski PP**. ERK1/2 regulates angiotensin II-dependent cell proliferation via the cytoplasmic activation of RSK2 and nuclear activation of elk1. *Amer. J. Physiol.; Cell Physiol.* 291:C1308-1317, 2006.
34. Frenzel K, Wallace TA, McDoom I, Xiao HD, Capecchi MR, Bernstein KE and **Sayeski PP**. A functional Jak2 tyrosine kinase domain is essential for mouse development. *Exp. Cell Res.* 312:2735-2744, 2006.
35. Godeny MD, Sayyah J, VonDerLinden D, Johns M, Ostrov DA, Caldwell-Busby J, **Sayeski PP**. The N-terminal SH2 domain of the tyrosine phosphatase, SHP-2, is essential for Jak2-dependent signaling via the angiotensin II type AT₁ receptor. *Cellular Signaling* 19:600-609, 2007.
36. Ma X and **Sayeski PP**. Identification of tubulin as a substrate of Jak2 tyrosine kinase and its role in Jak2-dependent signaling. *Biochemistry* 46:7153-7162, 2007.
37. Godeny MD and **Sayeski PP**. Jak2 Tyrosine Kinase and Cancer: How Good Cells Get HiJAKed (Review). *Anti-Cancer Agents in Medicinal Chemistry* 7:643-650, 2007.
38. McDoom I and **Sayeski PP**. Jak2 and Reactive Oxygen Species: A Complex Relationship (Review). *Current Chemical Biology* 1:303-310, 2007.
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