

CURRICULUM VITAE

NAME: Jennifer M. Sasser

WORK ADDRESS: Department of Pharmacology and Toxicology
University of Mississippi Medical Center
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EDUCATION:

2000 – 2005 Ph.D. with Distinction (Advisor: Jennifer S. Pollock, Ph.D.)
Department of Pharmacology and Toxicology
Medical College of Georgia, Augusta, Georgia.
Dissertation: “Endothelin-1 Signaling and Reactive Oxygen
Species Production in Hypertension and Type 1 Diabetes Mellitus”

1995 – 1999 BChE with highest honor
School of Chemical Engineering
Georgia Institute of Technology, Atlanta, Georgia.

PROFESSIONAL EXPERIENCE:

July 2017 Associate Professor
Department of Pharmacology and Toxicology
University of Mississippi Medical Center, Jackson, Mississippi

2016 - present Medical Pharmacology Graduate Program Director
Department of Pharmacology and Toxicology
University of Mississippi Medical Center, Jackson, Mississippi

2015 - present Assistant Professor (Secondary Appointment)
Department of Physiology and Biophysics
University of Mississippi Medical Center, Jackson, Mississippi

2012 - present Assistant Professor
Department of Pharmacology and Toxicology
University of Mississippi Medical Center, Jackson, Mississippi

July – Dec 2011 Research Assistant Professor
Department of Physiology and Functional Genomics
University of Florida, Gainesville, Florida.

2006 – 2011 Postdoctoral Associate (Advisor: Chris Baylis, Ph.D.)

Department of Physiology and Functional Genomics
University of Florida, Gainesville, Florida.

2000-2005 Graduate Research Assistant (Advisor: Jennifer S. Pollock, PhD)
Department of Pharmacology and Toxicology
Medical College of Georgia, Augusta, Georgia.

1999 –2000 Research Engineer
Redeon Incorporated, Atlanta, Georgia.

1996 – 1999 Undergraduate Research Assistant (Advisors: Ajit Yoganathan,
Ph.D. and Mark Prausnitz, Ph.D.)
School of Chemical Engineering
Georgia Institute of Technology, Atlanta, Georgia.

HONORS/AWARDS:

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|-----------|---|
| 1995-1999 | Georgia Institute of Technology President's Scholar |
| 1995 | National Merit Scholar |
| 1997 | Selection to membership in Omega Chi Epsilon (Chemical Engineering Honor Society) |
| 2002 | Travel Award to American Heart Association Hypertension Summer School |
| 2002 | Charles J. Hannan Memorial Award for Excellence in Graduate Student Research |
| 2003 | Merck New Investigator Award for the Council for High Blood Pressure Research of the American Heart Association |
| 2004 | Lowell M. Greenbaum Award for Excellence in Graduate Student Research in Pharmacology |
| 2004 | Caroline tum Suden/Francis Hellebrandt Professional Opportunity Award from the American Physiological Society |
| 2004 | Travel Award to the FASEB Summer Conference on Renal Microcirculatory and Tubular Dynamics |
| 2005 | Lowell M. Greenbaum Award for Excellence in Graduate Student Research in Pharmacology |
| 2005 | Medical College of Georgia Faculty and Spouse Club Scholarship |
| 2005 | Travel Award to the Ninth International Conference on Endothelin |
| 2006 | Chancellor's List for Graduate Students |
| 2006 | American Society of Nephrology Travel Grant for the Renal Week Professional Development Seminar |
| 2007 | Young Investigator Travel Award to the FASEB Summer Research Conference on Renal Hemodynamics, |
| 2007 | American Society of Nephrology Travel Grant for the Renal Week Advances in Research Conference |
| 2008 | Caroline tum Suden/Francis Hellebrandt Professional Opportunity Award from the American Physiological Society |
| 2008 | American Society of Nephrology Basic Science Travel Award |

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| 2011 | American Heart Association Council on Kidney in Cardiovascular Disease New Investigator Award |
| 2011 | International Society of Hypertension Poster Award |
| 2012 | American Physiological Society Water and Electrolyte Homeostasis Section New Investigator Award |
| 2012 | Fellow of the American Heart Association Council for High Blood Pressure Research |
| 2013 | American Physiological Society Dean Franklin Young Investigator Award |
| 2014 | UMMC Excellence in Research Award – Bronze Level |
| 2016 | Mississippi State University Biology Undergraduate Research Program 8 th Annual Symposium Keynote Speaker |
| 2016 | UMMC Excellence in Research Award – Silver Level |
| 2017 | Invited Witness, United States Senate Committee on Appropriations Subcommittee on Labor, Health and Human Services, Education, and Related Agencies |

TEACHING/MENTORING:

1. Teaching

Graduate

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|---------------|--|
| 2010-2011 | Lecturer Physiology for Dental Students, Renal Physiology University of Florida, Gainesville, Florida |
| 2011 | Lecturer Physiology for Physician Assistant Students, Endocrinology University of Florida, Gainesville, Florida |
| 2012-2015 | Lecturer Mechanisms of Drug Action University of Mississippi Medical Center, Jackson, Mississippi |
| 2013 | Lecturer Dental Pharmacology, Autonomic Pharmacology University of Mississippi Medical Center, Jackson, Mississippi |
| 2013- present | Lecturer, Small Group Leader Medical Pharmacology, Autonomic Pharmacology University of Mississippi Medical Center, Jackson, Mississippi |
| 2014- present | Lecturer Current Issues in Biomedical Research University of Mississippi Medical Center, Jackson, Mississippi |

Undergraduate

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| 1998 – 1999 | Teaching Assistant Differential Equations Department of Mathematics Georgia Institute of Technology, Atlanta, Georgia |
| 2009 | Course Co-director Interdisciplinary Honors Seminar in Scientific Inquiry “Sex Differences in Physiology” |

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| 2010, 2011 | University of Florida, Gainesville, Florida Course Co-Director Interdisciplinary Honors Seminar in Scientific Inquiry “Human Physiology and the Emergence of Disease” University of Florida, Gainesville, Florida |
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2. Mentoring

PhD Graduate Student Major Advisor

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| 2012-2015 | Ellen Gillis |
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Awards:

American Physiological Society Physiologists in Industry Novel Disease Award
American Physiological Society Water and Electrolyte Homeostasis Section
Predoctoral Research Recognition Award
American Society of Nephrology Kidney TREKS
American Heart Association Predoctoral Fellowship
UMMC Excellence in Medical Pharmacology Award
UMMC SGSHS Dean’s Service Award
American Society of Nephrology Kidney STARS
American Heart Association Council on Hypertension Top Trainee Abstract
Hypertension Early Career Award
State of Mississippi HEADWAE Award
UMMC Randall-Trustmark Award

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| 2017-2020 | Hannah Rice (MD/PhD Student) |
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Awards:

American Society of Nephrology Kidney TREKS

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| 2017-2021 | Kenji Maeda |
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PhD Graduate Student Rotation

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| Fall 2012 | Kasi McPherson |
| Fall 2013 | Tarek Ibrahim |
| Fall 2016 | Kenji Maeda |
| Spring 2017 | Jeanne Ishimwe |

MD/PhD Student Rotation

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| Summer 2015 | Hannah Rice |
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PhD Graduate Student Thesis Committee Member

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| 2012-2014 | Jessica Gomolak |
| 2012-2014 | Tiffany Slaughter White |
| 2012-2015 | Ashlyn Harmon |
| 2014-2015 | Jessica Faulkner |
| 2014-2015 | John Henry Dasinger |
| 2016- | Angela Hollis Benton |

Medical Student Research Fellow

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|-------------|-------------------------------------|
| Summer 2005 | Amy Boriskie (Jennifer Pollock, PI) |
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| Summer 2011 | Oladele Akinsiku (Chris Baylis, PI) |
| Summer 2013 | Haya Azouz |
| Summer 2014 | Syed Ahmed Neamatullah |
| Summer 2016 | Courtney Mullins |
| Summer 2017 | Daniel McClung (co-mentor with Michael Ryan) |

Masters Student Research Rotation

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| Spring 2011 | Stefan Shaw |
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Undergraduate Research Fellow

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|-------------------|------------------------------------|
| Summer 2006, 2007 | Colleen Vessell (Chris Baylis, PI) |
| Spring 2011 | Katie Jerzewski (Chris Baylis, PI) |
| Summer 2012, 2013 | Anusha Chintaparthi |
| Summer 2012 | Sarah Robbins |
| Summer 2014, 2015 | Brittnei Earl |
| Summer 2015 | Ta'Sharia Robinson |

Awards:

American Physiological Society David S. Bruce Outstanding Undergraduate Abstract Award

American Physiological Society David S. Bruce Excellence in Undergraduate Research Awards

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| Summer 2016 | Amanda Williams |
| Summer 2017 | Angel Garcia |

SERVICE:

1. Professional/Scientific Society:

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| 2003 – 2005 | Trainee Member, Animal Care and Experimentation Committee, American Physiological Society |
| 2006 – 2010 | Trainee Advisory Committee, American Physiological Society |
| 2007 – 2010 | Water and Electrolyte Homeostasis Section Steering Committee, Trainee Member, American Physiological Society |
| 2011-2012 | Strategic Planning Task Force, American Physiological Society |
| 2011-2016 | American Heart Association Cardiorenal - Basic Science & Clinical/Translational 2 Peer Review Committee |
| 2012-2014 | Chair, Trainee Advisory Committee, American Physiological Society |
| 2012-2014 | Kidney in Cardiovascular Disease Council Early Career Committee, American Heart Association |
| 2012-2014 | Science Policy Liaison, Gulf Coast Physiological Society |
| 2012-present | Abstract Reviewer, American Heart Association |
| 2013-2014 | Grant Reviewer, Hungarian Scientific Research Fund (OTKA) |
| 2013-present | Abstract Reviewer, American Society of Nephrology |
| 2013-2015 | Treasurer, Gulf Coast Physiological Society |
| 2014-2015 | Newsletter Editor, American Heart Association Council on Hypertension Membership & Communications Committee |
| 2014 – 2017 | Water and Electrolyte Homeostasis Section Steering Committee, Historian, American Physiological Society |

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| 2015 | American Heart Association Strategically Focused Research Network on Hypertension Review Panel |
| 2015-2016 | American Society of Nephrology Kidney STARS Mentor |
| 2016-2018 | Education Committee, American Physiological Society |
| 2016-2017 | Co-Chair, American Heart Association Council on Hypertension Membership & Communications Committee |

2. Local / Institutional:

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| 2006-2011 | University of Florida Hypertension Center |
| 2007-2011 | University of Florida Reproductive and Perinatal Biology Research Program |
| 2010, 2011 | PhUN (<u>Physiology Understanding</u>) Week Leader NH Jones Elementary School, Ocala Springs Elementary School |
| 2012- present | UMMC Center for Excellence in Cardiorenal Research |
| 2012- present | UMMC Department of Pharmacology and Toxicology Professional Education Committee |
| 2012-2013 | UMMC “Fund U” Faculty Mentoring Committee |
| 2012- present | PhUN (<u>Physiology Understanding</u>) Week Leader Northshore Elementary School, Mississippi Children’s Museum |
| 2013- 2016 | UMMC Discovery U Mentor |
| 2013- 2016 | UMMC Postdoctoral Advisory Committee |
| 2013- 2016 | Delta Regional Committee Chair for the Georgia Tech President’s Scholarship |
| 2013 | Judge for UMMC Medical Student Research Program Poster Competition |
| 2013- present | UMMC Graduate Program Review Committee |
| 2013- present | Chair, UMMC Department of Pharmacology and Toxicology Graduate Program Committee |
| 2014 | UMMC School of Graduate Studies Nelson Order Nomination Committee |
| 2014- 2017 | UMMC Representative to the AAMC Group on Women in Medicine and Science |
| 2014- 2016 | President, UMMC Chapter of the Group on Women in Medicine and Science |
| 2014, 2017 | Grant Reviewer, UMMC Intramural Research Support Program |
| 2014, 2017 | UMMC Graduate Student Honors Day Selection Committee |
| 2014- 2016 | UMMC Postdoctoral Fellow Honors Day Selection Committee |
| 2016 | UMMC Institutional Climate Workgroup |
| 2017-present | UMMC School of Graduate Studies in the Health Sciences Curriculum Committee |

3. Journal/Editorial Activity:

a. Editorial Board:

American Journal of Physiology: Regulatory, Integrative and Comparative Physiology, American Journal of Physiology: Renal Physiology

b. Ad Hoc Reviewer:

Hypertension, Journal of Hypertension, American Journal of Physiology: Heart and Circulatory Physiology, American Journal of Physiology: Endocrinology and Metabolism, Physiological Reports, Plos One, Clinical Science, Biology of Sex Differences, Kidney International, Metabolism, Life Science, Journal of Cardiovascular Pharmacology, American Journal of Hypertension, Journal of Applied Physiology, Frontiers in Physiology, Circulation

PROFESSIONAL MEMBERSHIPS:

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| 2001 – present | American Physiological Society |
| 2005 – present | American Heart Association |
| 2006 – present | American Society of Nephrology |
| 2012 – present | American Society for Pharmacology and Experimental Therapeutics |
| 2014 - present | Association of American Medical Colleges |

RESEARCH:

Funding:

Current:

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| 2012-2017 | National Institutes of Health K01 DK095018 Mentored Research Scientist Development Award “Mechanisms of Renoprotection by Relaxin in Hypertension” Role: PI Total costs: \$634,160 |
| 2017-2021 | National Institutes of Health R01 HL134711 “Mechanisms of Cardiorenal Disease following Preeclampsia” Role: PI Total costs: \$1,906,250 |

Previous:

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| 2002-2004 | American Heart Association Southeastern Affiliate Pre-doctoral Fellowship “Roles of transforming growth factor-beta and endothelin in development of Angiotensin II-induced salt-sensitive hypertension” |
| 2004-2005 | Pharmaceutical Research and Manufacturers of America Foundation Pre-doctoral Fellowship in Pharmacology/Toxicology “Increased Angiotensin II and Endothelin-1 Signaling in Insulin-Dependent Diabetes Mellitus Increase the Superoxide:Nitric Oxide Balance and Contribute to Injury in the Renal Cortex.” |
| 2006-2008 | American Heart Association Florida-Puerto Rico Affiliate Post-doctoral Fellowship |

“Role of renal inner medullary phosphodiesterase-5 in the regulation of natriuresis”

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| 2008-2011 | National Institute of Health T32 HL083810 Multidisciplinary Training Program in Hypertension University of Florida Hypertension Center |
| 2011-2012 | American Heart Association Scientist Development Grant 11SDG6910000 “Mechanisms of Renoprotection by Relaxin in Hypertension” Role: PI (Terminated to accept K01) |
| 2013-2014 | University of Mississippi Medical Center Intramural Research Support Program Award “Effects of Relaxin in the Female Dahl Salt Sensitive Rat” Role: PI |
| 2015-2017 | American Society of Nephrology Carl W. Gottschalk Research Scholar Grant “Hypertension in Pregnancy- Mechanisms and Mediators” Role: PI Total costs: \$200,000 |
| 2014-2017 | National Institutes of Health P20GM104357 Pilot Grants Program-Center of Biomedical Research Excellence “Elucidating Mechanisms Responsible for the Pathogenesis of Preeclampsia using the Dahl Salt Sensitive Rat as a Novel Model of Preeclampsia” Role: PI Total costs: \$90,000 |

Trainee Research Funding Awards:

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| 2015-2016 | American Heart Association Pre-doctoral Fellowship awarded to Ellen E. Gillis, MS, graduate student “Elucidating mechanisms responsible for the pathogenesis of preeclampsia using the Dahl S rat as a novel model of PE” 15PRE22660009 |
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Invited Seminars:

1. Duke University, Division of Nephrology, “Endothelin-1, Nitric Oxide, and Reactive Oxygen Species Signaling in Hypertension and Type 1 Diabetes Mellitus,” 2005.
2. University of Florida, Department of Physiology and Functional Genomics, “Endothelin-1, Nitric Oxide, and Reactive Oxygen Species Signaling in Hypertension and Type 1 Diabetes Mellitus,” 2005.
3. Lockheed Martin Corporation, Ocala, FL, Lunch and Learn Employee Health Awareness Program, “Hypertension: The Silent Killer,” 2007

4. Malcolm Randall VA Medical Center, Gainesville, FL, "The Role of Phosphodiesterase-5 in the Sodium Retention of Pregnancy," 2009.
5. University of Florida, Department of Physiology and Functional Genomics, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2010.
6. Medical College of Georgia, Vascular Biology Center, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2010.
7. Georgia Health Sciences University, Department of Physiology, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2011.
8. University of Mississippi Medical Center, Department of Pharmacology and Toxicology, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2011.
9. University of Florida College of Veterinary Medicine, Department of Physiological Sciences, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2011.
10. St. Joseph's Translational Research Institute, Atlanta, GA. "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2011.
11. University of Florida College of Medicine, Interdisciplinary Program in Biomedical Science Career Development Seminar Series. "What to expect as a Postdoc," 2011.
12. University of Nebraska Medical Center, Department of Cellular and Integrative Physiology, "Relaxin – a Novel Treatment for Hypertension Induced Chronic Kidney Disease," 2011.
13. University of Florida, D.H. Barron Reproductive and Perinatal Biology Research Program and Perinatal Outcome Research Center, "Renoprotective effects of Relaxin in Hypertension – Role of Nitric Oxide," 2011.
14. University of Mississippi Medical Center Women's Health Research Center, "Renal Phosphodiesterase-5 in the Maternal Volume Expansion of Normal Pregnancy." April 2012.
15. University of Mississippi Medical Center Department of Physiology, "Renoprotective Effects of Relaxin in Hypertension – Role of Nitric Oxide." April 2012.
16. University of Mississippi Medical Center, Department of Pharmacology and Toxicology, "Potential Therapeutic Actions of Relaxin in Hypertension and Kidney Disease – New Insights for Preeclampsia." November 2013.
17. University of Alabama at Birmingham Comprehensive Cardiovascular Center, "Potential Therapeutic Actions of Relaxin in Hypertension and Kidney Disease – New Insights for Preeclampsia." November 2013.
18. Keynote Speaker, Mississippi State University Undergraduate Research Symposium, Starkville, MS, 2016.
19. Augusta University Department of Physiology, "Insights into the Pathogenesis of Preeclampsia and Long-term Cardiorenal Risks." May 2016.
20. Tulane University Department of Pharmacology, "Insights into the Pathogenesis of Preeclampsia and Long-term Cardiorenal Risks." September 2016.
21. University of Alabama at Birmingham Division of Nephrology, "Insights into the Pathogenesis of Preeclampsia and Long-term Cardiorenal Risks." September 2016.
22. Emory University, Renal Division, "Insights into the Pathogenesis of Preeclampsia and Long-term Cardiorenal Risks." February 2017.

Oral Presentations/Invited Participation in Scientific Meetings:

1. Oral Abstract Presentation, Experimental Biology, San Diego, CA, 2003.

2. Oral Abstract Presentation, Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease, Washington, D.C., 2003.
3. Oral Abstract Presentation, Experimental Biology, Washington, D.C., 2004.
4. Oral Abstract Presentation, FASEB Summer Research Conference on Renal Hemodynamics, Callaway Gardens, GA, 2004.
5. University of Florida Department of Medicine Research Day, Gainesville, FL, 2007.
6. Oral Abstract Presentation, FASEB Summer Research Conference on Renal Hemodynamics, Saxton's River, VT, 2007.
7. Session Chair and Moderator, FASEB Summer Research Conference on Renal Hemodynamics, Saxton's River, VT, 2010.
8. Oral Abstract Presentation, FASEB Summer Research Conference on Renal Hemodynamics, Saxton's River, VT, 2010.
9. Session Chair and Organizer, "Cardiovascular and renal homeostasis during pregnancy and pregnancy complications." Experimental Biology, Washington, D.C., 2011.
10. Invited Speaker, "Careers in Physiology – Taking the Next Steps." APS Conference: Physiology of Cardiovascular Disease: Gender Disparities, Jackson, MS, 2011.
11. Invited Speaker, "Overcoming Laboratory Disagreements from a Trainee Perspective." Experimental Biology, San Diego, CA, 2012.
12. Oral Abstract Presentation, Experimental Biology, San Diego, CA, 2012.
13. Invited Speaker, "Relaxin ameliorates hypertension and renal injury by angiotensin II." The Sixth International Conference on Relaxin and Related Peptides, Florence, Italy, 2012.
14. Session Co-Chair and Co-Organizer, "Novel Roles of Hormones in Blood Pressure Regulation." Experimental Biology, Boston, MA, 2013.
15. Invited Speaker, "Role of Relaxin in Hypertension and Kidney Disease." Annual Meeting of the Organization for the Study of Sex Differences, Weehauken, NJ, 2013.
16. Invited Speaker, "Role of Relaxin in Hypertension and Kidney Disease." American Society of Hypertension Annual Scientific Meeting, San Francisco, CA, 2013.
17. Invited Speaker, "Relaxin in Renal Physiology and Disease." Gulf Coast Physiological Society Meeting, Mobile, AL, 2013.
18. Oral Presentation, "Effects of relaxin on salt, water, and the kidney." Southern Salt Water and Kidney Club Meeting, Sarasota, FL, 2013.
19. Oral Presentation, "The Dahl Salt Sensitive Rat is a Novel Model of Chronic Hypertension with Superimposed Preeclampsia." Southern Salt Water and Kidney Club Meeting, Sarasota, FL, 2014.
20. Invited Speaker, "Spontaneous Superimposed Preeclampsia in Dahl Salt Sensitive Rats." APS Conference: Cardiovascular and Metabolic Diseases: Physiology and Gender, Annapolis, MD, 2015.
21. Oral Presentation, "Searching for the genetic basis of impaired placentation in the Dahl salt- sensitive rat model of superimposed preeclampsia." Experimental Biology, San Diego, CA, 2016.
22. Invited Speaker, "Insights into Preeclampsia from the Dahl Salt Sensitive Rat." FASEB Summer Research Conference: Renal Hemodynamics and Cardiovascular Function in Health and Disease, Big Sky, Montana, 2016.
23. Invited Speaker, "Sex Differences in Renal Function." APS-Physiological Society Joint Annual Meeting, Dublin, Ireland, 2016.

24. Invited Speaker, "Get a job: build the skills employers want!" APS Conference : Inflammation, Immunity, and Cardiovascular Disease, Westminster, CO, 2016.
25. Invited Witness, United States Senate Committee on Appropriations Subcommittee on Labor, Health and Human Services, Education, and Related Agencies, Washington, DC, 2017.
26. Session Co-Chair, "Curricular Innovation in Sex and Gender Based Medical Physiology Education." Experimental Biology, Chicago, IL, 2017.
27. Invited Speaker, "Pre-Eclampsia and Hypertension Risk Later in Life" Experimental Biology, Chicago, IL, 2017.
28. Oral Presentation, "Gene Expression changes in Utero-Placental development associated with superimposed preeclampsia in the Dahl salt- sensitive rat model." Experimental Biology, Chicago, IL, 2017.
29. Session Chair and Organizer, "APS Refresher Course on GI Physiology – Not Just the Gut Anymore." Experimental Biology, San Diego, CA, 2018.

Books:

1. **Sasser JM.** *Nitric Oxide in the Kidney*. Morgan and Claypool. Integrated Systems Physiology eBook Series. 2015.

Publications:

1. Milet SF, **Mayberry JL**, Ivarsen HR, Eschen O, Houliand K, Pedersen EM, and Yoganathan AP. A semi-automated method to quantify left ventricular diastolic inflow propagation by magnetic resonance phase velocity mapping. *J Magn Reson Imaging*. 9(4): 544-551, 1999.
2. **Sasser JM**, Pollock JS, and Pollock DM. Renal endothelin in chronic angiotensin II hypertension. *Am J Physiol Regul Integr Comp Physiol*. 283: R243-8, 2002.
3. **Sasser JM**, Sullivan JC, Elmarakby AA, Kemp BE, Pollock DM, and Pollock JS. Reduced NOS3 phosphorylation mediates reduced NO/cGMP signaling in mesenteric arteries of DOCA-salt hypertensive rats. *Hypertension*. 43: 1080-5, 2004.
4. Lee DL, **Sasser JM**, Hobbs J, Boriskie AL, Pollock DM, Carmines PK, and Pollock JS. Posttranslational regulation of NO synthase activity in the renal medulla of diabetic rats. *Am J Physiol Renal Physiol*. 288: F82-90, 2005.
5. Sullivan JC, **Sasser JM**, Pollock DM, and Pollock JS. Sexual dimorphism in renal prostanoid excretion and protein expression in spontaneously hypertensive rats. *Hypertension*. 45:406-411, 2005.
6. **Sasser JM**, Lindheimer MD, Baylis C. An emerging role for Relaxin as a renal vasodilator. *J Am Soc Nephrol*. 17:2960-2961, 2006.
7. **Sasser JM**, Hobbs J, Pollock DM, Carmines PK, and Pollock JS. Mechanisms of endothelin A receptor antagonist protection in kidneys of streptozotocin-induced diabetic rats. *J Am Soc Nephrol*. 18:143-154, 2007.
8. Sullivan JC, **Sasser JM**, and Pollock JS. Sexual Dimorphism in Oxidant Status in Spontaneously Hypertensive Rats. *Am J Physiol*. 292:R764-768, 2007.
9. Kang KT, Sullivan JC, **Sasser JM**, Imig JD, and Pollock JS. Novel nitric oxide synthase-dependent mechanism of vasorelaxation in small arteries from hypertensive rats. *Hypertension*. 49:893-901, 2007.
10. **Sasser JM**, Snellen H, Baylis C. The natriuretic and diuretic response to dopamine is maintained during rat pregnancy. *Am J Physiol Renal Physiol*. 294:F1342-1344, 2008.

11. Boesen EI, **Sasser JM**, Saleh MA, Potter WA, Woods M, Warner TD, Pollock JS, Pollock DM. Interleukin-1 β but not interleukin-6 enhances renal and systemic endothelin production in vivo. *Am J Physiol Renal Physiol*. 295(2):F446-53, 2008.
12. **Sasser JM**, Baylis C. Effects of Sildenafil on maternal hemodynamics and fetal growth in normal rat pregnancy. *Am J Physiol Regul Integr Comp Physiol*. 298:R433-8, 2010.
13. **Sasser JM**, Moninga N, Cunningham MC, Croker B, Baylis C. Asymmetric Dimethylarginine in Angiotensin II Induced Hypertension. *Am J Physiol Regul Integr Comp Physiol*. 298:R740-6, 2010.
14. **Sasser JM**, Ni X, Humphreys MH, Baylis C. Increased Renal Phosphodiesterase-5 Activity Mediates The Blunted Natriuretic Response To Nitric Oxide Donors In The Pregnant Rat. *Am J Physiol Renal Physiol*. 299(4):F810-4, 2010.
15. Chen GF, Wagner L, **Sasser JM**, Zharikov S, Moninga N, Baylis C. Effects of Irbesartan on Arginine/ADMA Synthesis and Metabolic Pathways in Fawn-Hooded Hypertensive Rats. *Nephrology Dialysis Transplantation*. 25(11):3518-25, 2010.
16. Fekete A*, **Sasser JM***, Baylis C. Chronic vasodilation mimics the volume expansion of pregnancy – support for the underfill theory. *Am J Physiol Renal Physiol*. 300:F113-8, 2011. *These authors contributed equally to the study.
17. Moninga N, **Sasser JM**, Croker B, Carter C, Baylis C. Effects of aging on renal cortical enzymes that control nitric oxide bioavailability in the Fischer 344 x Brown Norway Rat. *Mechanisms of Ageing and Development*. 132(1-2):1-7, 2011.
18. Kirabo A, Kearns PN, Jarajapu YP, **Sasser JM**, Oh SP, Grant MB, Kasahara H, Cardounel AJ, Baylis C, Wagner KU, Sayeski PP. Deletion of Jak2 Tyrosine Kinase within Vascular Smooth Muscle Cells Attenuates Angiotensin II induced Hypertension in Mice due to Reduced Levels of Reactive Oxygen Species. *Cardiovascular Research*. 91(1):171-9, 2011.
19. **Sasser JM**, Molnar M, Baylis C. Relaxin Ameliorates Hypertension and Increases Nitric Oxide Metabolite Excretion in Angiotensin II but not L-NAME Hypertensive Rats. *Hypertension*. 58:197-204, 2011.
20. Moninga N, Tsarova T, **Sasser JM**, Baylis C. Nebivolol prevents chronic nitric oxide synthase inhibition induced chronic kidney disease and hypertension. *Nephrology Dialysis Transplantation*. 27:913-20, 2012.
21. Chen GF, Moninga N, Tain YL, **Sasser JM**, Zharikov S, Cunningham MC, Schwartz D, Baylis C. Arginine and asymmetric dimethylarginine (ADMA) in Puromycin Aminonucleoside Induced Chronic Kidney Disease in the Rat. *American Journal of Nephrology*. 35:40-8, 2012.
22. Smith P, Horwitz B, **Sasser J**. Conflict resolution: how to keep everyone happy! *The Physiologist*. 55:31-2, 2012.
23. **Sasser JM**, Moninga N, Tsarova T, Baylis C. Nebivolol does not protect against 5/6 ablation/infarction induced chronic kidney disease in rats - comparison with angiotensin II receptor blockade. *Life Sciences*. 91:54-63, 2012.
24. **Sasser JM**, Akinsiku O, Moninga NC, Jerzewski K, LeBlanc AJ, Kang L, Sindler A, Baylis C, Muller-Delp J. Sexual dimorphism in development of kidney damage in the aging Fischer-344 rat kidney. *Gender Medicine*. 9:219-31, 2012.
25. Cunningham MW Jr, **Sasser JM**, West CA, Baylis C. Renal Redox Response to Normal Pregnancy in the Rat. *Am J Physiol Regul Integr Comp Physiol*. 304(6):R443-9, 2013.
26. Cunningham MW Jr, **Sasser JM**, West CA, Milani CJ, Baylis C, Mitchell KD. Renal nitric oxide synthase and antioxidant preservation in Cyp1a1-Ren-2 transgenic rats with inducible malignant hypertension. *Am J Hypertension*. 26(10):1242-9, 2013.

27. **Sasser JM.** The emerging role of relaxin as a novel therapeutic pathway in the treatment of chronic kidney disease. (Invited Review) *Am J Physiol Regul Integr Comp Physiol.* 305(6):R559-65, 2013.
28. West CA, Shaw S, **Sasser JM**, Fekete A, Alexander T, Masilamani S, Baylis C. Chronic vasodilation increases collecting duct PDE5A and α ENaC through independent renin-angiotensin-aldosterone system (RAAS) pathways. *Am J Physiol Regul Integr Comp Physiol.* 305:R1133-40, 2013.
29. **Sasser JM.** New Targets for Renal Interstitial Fibrosis: Relaxin Family Peptide Receptor 1 - Angiotensin Type 2 Receptor Heterodimers (Editorial Commentary). *Kidney International.* 86:9-10, 2014.
30. **Sasser JM**, Nichols NL. The other side of the submit button: How to Become a Reviewer for Scientific Journals. *The Physiologist.* 57:88-91, 2014.
31. **Sasser JM**, Cunningham MC, Baylis C. Serelaxin reduces Oxidative Stress and Asymmetric Dimethylarginine in Angiotensin II Induced Hypertension. *Am J Physiol Renal Physiol.* 307:F1355-62, 2014.
32. **Sasser JM**, Brinson KN, Tipton A, Sullivan JC. Blood pressure, sex and female sex hormones influence renal inner medullary nitric oxide synthase activity and expression in Spontaneously Hypertensive Rats. *Journal of the American Heart Association*, 4(4). pii: e001738, 2015.
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