CURRICULUM VITAE

NAME: Sydney R. Murphy, M.S., Ph.D.

WORK ADDRESS: Department of Pharmacology

University of Mississippi Medical Center

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Email: smurphy@umc.edu

RESEARCH/WORK EXPERIENCE:

2020-Present Associate Professor

Department of Pharmacology and Toxicology

University of Mississippi Medical Center, Jackson, MS

2020- Present Associate Professor (secondary appointment)

Department of Population Health Science John D. Bower School of Population Health

University of Mississippi Medical Center, Jackson, MS

2017-Present Associate Dean of Academic Affairs

School of Graduate Studies in the Health Sciences

University of Mississippi Medical Center

2017-2020 Assistant Professor (secondary appointment)

Department of Population Health Science John D. Bower School of Population Health

University of Mississippi Medical Center, Jackson, MS

2016-Present Associate Dean of Academic and Faculty Affairs

John D. Bower School of Population Health

University of Mississippi Medical Center, Jackson, MS

2014-2017 Assistant Dean of Academic Affairs

School of Graduate Studies in the Health Sciences

University of Mississippi Medical Center, Jackson, MS

2014-2020 Assistant Professor

Department of Pharmacology and Toxicology

University of Mississippi Medical Center, Jackson, MS

2012-2014 Instructor

Department of Pharmacology and Toxicology

University of Mississippi Medical Center, Jackson, MS

2010-2012 Post-doctoral Research Fellow I

Department of Pharmacology and Toxicology

University of Mississippi Medical Center, Jackson, MS

2006-2010 Graduate Assistant

Department of Physiology and Biophysics

University of Mississippi Medical Center, Jackson, MS

EDUCATION:

2010- 2012 Post-doctoral Research Fellowship (Mentor: Richard J. Roman,

Ph.D.) Department of Pharmacology and Toxicology University of MS Medical Center, Jackson, MS

2006-2010 Ph.D. (Mentor: Joey P. Granger, Ph.D.)

Department of Physiology and Biophysics

Department of Physiology, University of MS Medical Center, Jackson, MS

Dissertation: "Role of sFlt-1 in Pregnancy-Induced Hypertension:

Mechanisms of Production and Hypertensive Actions"

2006-2009 M.S.

Biomedical Sciences

University of Mississippi Medical Center, Jackson, MS

2002-2006 B. S.

Biochemistry and Molecular Biology

Mississippi State University, Mississippi State, MS

PROFESSIONAL MEMBERSHIPS:

2007-Present	American Physiological Society
2008-Present	American Heart Association
2014-2019	American Society of Experimental Pharmacology and Therapeutics
2014-2018	International Society of the Study of Hypertension in Pregnancy

HONORS/AWARDS:

2019	Top 50 Under 40, Mississippi Business Journal
2018	UMMC Bronze Level of Excellence in Research Awards
2015-16	UMMC Leadership Development Program
2012	Best Post-doctoral Oral Presentation, Juan Carlos Romero Memorial
	Postdoctoral Travel and Research Recognition Awardee
2010	Best Pre-doctoral Oral Presentation, American Physiological Society
	DSI- Water and Electrolyte Homeostasis trainee symposium
2010	Regions Graduate Research Award

2009 Best Oral Student Presentation at the 5th Annual Gulf Coast Physiological

Society Meeting

2009 Pre-doctoral Trainee Finalist, American Physiological Society DSI-Water and

Electrolyte Homeostasis trainee symposium

New Investigator Travel Award to the 63rd High Blood Pressure Research

Conference

TEACHING/MENTORING:

Teaching

Responsible Conduct in Research for Post-doctoral research fellows

Fall 2019, 2020, 2021

Responsible Conduct in Research (ID 709) – course director – (3 credit hours)

Spring 2019, Spring 2020, Spring 2021

Teaching in Higher Education (ID 715) - course director – (3 credit hours)

Fall 2017, Spring 2018

Teaching Practicum (ID 716) – course director

Fall 2017, Spring 2018

Medical Physiology- Small group leader

2016

Recent Advances in Pharmacology (Journal Club), Director

2014-2017

Responsible Conduct in Research (ID 709) - Data Management Lecture

2015-2016

Medical Pharmacology- Small group leader

2013-2019

Mechanisms of Drug Action

Fall 2012 sophomore graduate students

Mentoring

Summer Medical Student Research Fellow

Summer 2007 Lyndsay R. Shipp

Jason Bridges

Summer Undergraduate Research Fellow

Summer 2007 Matt Dukes
Summer 2007-2010 Drew Colson
Summer 2015 Christopher Fisher
Summer 2016-2017 Joshua Cotton

OB/GYN Maternal-Fetal Medicine Fellow

2013-2016 Nicole Lee, M.D.

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SOM Pre-	Clinical	Advisor
	Cilificat	1 10 V 1501

2014-2016	Class of 2018: Susan Robbins, Melissa Mayeux, Mary Ball Markow
2015-2017	Class of 2019: Ashli Fitzpatrick, Emily Ousterhout, Hannah Miller
2016-2018	Class of 2020: Trace Palmer, Yamin Partee, Ritesh Patel
2017-2019	Class of 2021: Aalaap Desai, Jordan Jackson, Patel Bijalben
2018-2020	Class of 2022: William Bigham, Taylor Johnson, Shelby Swede
2019-Present	Class of 2023: Sydney James, Michael Mahoney, Mitchell Ostrander, Avery
	Villeret, Jasmine McNair
2020-Present	Class of 2024: Rebecca Burson, Dion Kevin, Rachael Pace, Kallie Sheridan,
	Katie Weeks

Dissertation Committee

2014-2018	Kasi McPherson (Pharmacology)
2014-2016	Jessica Faulkner (Pharmacology)
2016-2019	Vennam R. Vaka (Experimental Therapeutics and Pharmacology)
2018-present	Corbin Shields (Experimental Therapeutics and Pharmacology)
2018-2019	Karen Arrant (Nursing)
2018-2020	Pamela Farris (Nursing)
2020-present	Andrew Ferriby (Clinical Anatomy)
2021-present	Sara Fitzgerald (Experimental Therapeutics and Pharmacology)

SERVICE:

1. Professional:

2019	Program Reviewer, Southern Association of Colleges and Schools,
	Commission on Colleges
2019	Ad-Hoc member, Awards Committee, Water and Electrolytes Homeostatis
	Section, American Physiological Society
2010-2014	Trainee Advisory Committee, Water and Electrolyte Homeostatis Section,
	American Physiological Society
2013	Ad-Hoc member, Awards Committee, Water and Electrolytes Homeostatis
	Section, American Physiological Society

2. Institutional Service:

institutional Sci	ice:
2013-2014	Office of Postdoctoral Studies Advisory Committee
2014-2015	Faculty Development Committee
2014-Present	SOM Pre-clinical Advisor
2014-Present	Academic Affairs Counsel
2014-2016	Educational Technology Working Group
2014-Present	Institutional Assessment Committee
2014-Present	Academic Accommodations Committee
2014-Present	SGSHS Graduate Council
2014-2018	SGSHS Clinical Health Sciences TeachOut Executive Committee
2015-Present	SGSHS Graduate Curriculum Committee, Chair
2015-2016	Social Determinants on Health Committee
2015-Present	SGSHS Admissions Committee, MS in Biomedical Sciences
2015-Present	Interprofessional Education Collaborative
2015-2017	SACSCOC 5 th year Report Committee
2016-2016	Faculty Development Task Force
2017-Present	Interprofessional Advisory Group

2017 **Education Intelligence Advisory Committee SOPH Academic Council** 2017-Present SOPH Curriculum Committee, chair 2017-Present 2017- Present SOPH Leadership Team 2018- Present **SOPH Administrative Council**

SOPH Workforce Development Scholarship Committee 2019- Present UMMC Sexual Misconduct Investigative Team, Adjudicator 2020- Present

UMMC Basic Science Education Initiative Committee 2020 – Present

3. Volunteer Service:

2007, 2009-2013 Judge, Mississippi Independent School Association regional science fair Judge, Mississippi Independent School Association district science fair 2011, 2013 2014 Judge, UMMC Graduate Student Research Day Poster Session UMMC Discovery U, PhUn Week event at the MS Children's Museum 2014-2015 2015- Present APS WEH Mentoring on the Go, Mentor

2016 March of Dimes

2012-2020 Sunday School teacher, Little Lakers, Pinelake Kids

Sunday School teacher, Pinelake Kids 2021-present

4. Ad-Hoc Reviewer:

Hypertension

Current Vascular Pharmacology

American Journal of Obstetrics and Gynecology

Prostaglandins and other Lipid Mediators

American Journal of Physiology-Renal

Physiological Genomics

5. Personal:

2017- Present	Madison Avenue Elementary Parent Teacher Organization
2018- Present	Hoy Farms Homeowners Association, President
2020- Present	Madison Avenue Upper Elementary Parent Teacher Organization

6. Publications:

2018	SACSCOC Substantive Change Prospectus- MS of Population Health Science
	– Approved June 25, 2018
2018	SACSCOC Substantive Change Prospectus- Executive MS of Population
	Health Management – Approved June 25, 2018
2018	SACSCOC Substantive Change Prospectus- PhD of Population Health Science
	1 1 27 2010

- Approved June 25, 2018

2018 SACSCOC Substantive Change Prospectus- Doctorate of Audiology –

Approved June 7, 2019

RESEARCH:

Funding:

Previous:

2014-2018 American Heart Association National

> Scientist Development Grant 14SDG20160020 "Vascular eicosanoids and Preeclampsia"

Total costs: \$308,000

2011-2013 American Heart Association Southeastern Affiliate "CYP Metabolites, Hypertension, and Renal Disease"

Total costs: \$94,928.00

2011-2012 NIH Training Grant 1T32HL105324-01

University of Mississippi Medical Center, Jackson, MS

2009-2010 American Heart Association Southeastern Affiliate

Pre-doctoral Fellowship 09PRE2250498 "Pregnancy, The Kidney, and Hypertension"

Total costs: \$43,540

Oral Presentations/Invited Participation

1. The Frazzled Female: Today's Working Mom. UMMC GWIMS Ignite Symposium. November 2020.

- 2. Responsible Conduct in Research. A Summer Workshop to Drive Collaborative Innovation in Science Education. Science Teaching Excites Medical Interest. University of Mississippi Medical Center, July 2020.
- 3. Responsible Conduct in Research. A Summer Workshop to Drive Collaborative Innovation in Science Education. Science Teaching Excites Medical Interest. University of Mississippi Medical Center, June 2019.
- 4. Oral Presentation, Translational Physiology Showcase: Focus on Sex differences in Obesity and Blood Pressure, Developmental Programming, and Women's Health, Experimental Biology, Chicago, IL; April 2017
- 5. Oral Presentation, Water and Electrolyte Homeostasis Trainee symposium, Experimental Biology, San Diego, CA; April 2012
- 6. Oral Presentation, Water and Electrolyte Homeostasis Trainee symposium, Experimental Biology, Anaheim, CA; April 2012
- 7. Invited Speaker, American Association of Anatomist Intra-uterine Programming and Placentation symposium, Experimental Biology, Anaheim, CA; April 2012
- 8. Oral Presenation, American Heart Association, Council for High Blood Pressure Research, Chicago, IL; September 2009
- 9. Oral Presenation, Water and Electrolyte Homeostasis Trainee symposium, Experimental Biology, New Orlean, LA. April 2009
- 10. Oral Presentation, American Physiological Society 5th Annual Gulf Coast Physiological Society Meeting. New Orleans, LA. April 2009

Publications:

- C Zhang, X He, SR Murphy, H Zhang, S Wang, Y Ge, W Gao, JM Williams, AM Geurts, RJ Roman, F Fan. Knockout of Dual-Specificity Protem Phosphatase 5 Protects Against Hypertension-Induced Renal Injury. J Pharm and Exp Therapeutics, 2019. PMID:31118214.
- 2. BM Beech, N Gaughf, **S Murphy**. Population Health: The Scope, Training, and Practice. What are the Benefits for Mississippi? Journal of Mississippi State Medical Association. 2018; 59(8):344-346
- 3. Plenty NL, JL Faulkner, J Cotton, SK Spencer, K Wallace, B LaMarca, **SR Murphy.** Arachidonic acid metabolites of CYP4A and CYP4F are altered in women with preeclampsia. Prostaglandins and Other Lipids, 2018; 136: 15-22. PMID: 29588191.
- 4. JL Faulkner, NL Plenty, K Wallace, LM Amaral, MW Cunningham, **S Murphy**, B LaMarca. Selective Inhibition of 20-hydroxyeicosatetraenoic acid lowers blood pressure in a rat model of

- preeclampsia. Prostaglandins & Other Lipids Mediators, 2018; 134: 108-113. PMID: 28951260. PMCID: PMC5902033.
- 5. **SR Murphy** and K Cockrell. Regulation of soluble fms-like tyrosine kinase-1 production in response to placental ischemia/hypoxia: role of angiotension II. Physiological Reports. 2015 Feb 3(2). PMID: 25716926. PMCID: PMC4393214.
- 6. JM Sasser, **SR Murphy**, JP Granger. Emerging drugs for preeclampsia- the endothelium as a target. Expert Opinion on Emerging Drugs. 2015;20(4). PMID: 26138471. PMCID: PMC4697827.
- 7. F Fan, AM Geurts, **SR Murphy**, MR Pabbidi, HJ Jacob, RJ Roman. Impaired myogenic response and autoregulation of cerebral blood flow is rescued in CYP4A1 transgenic Dahl salt-sensitive rat. Am J Physiol Regul Integr Comp Physiol. 2015; 305(5): R379-R390. PMID: 25540098. PMCID: PMC4346760.
- 8. Warrington JP, F Fan, **SR Murphy**, RJ Roman, HA Drummond, JP Granger, MJ Ryan. Placental ischemia in pregnant rats impairs cerebral blood flow autoregulation and increases blood-brain barrier permeability. Physiological Reports Aug 2014;2(8). PMID: 25168877.
- 9. Ge, Ying, **SR Murphy**, F Fan, JM Williams, J Falck, R Liu, RJ Roman. Role of 20-HETE in the impaired myogenic and TGF responses of the Af-Art of Dahl Salt-sensitive rats. Am J Physiol Renal Physiol July 9, 2014. PMID: 25007887. PMCID: 4154113.
- 10. **Murphy SR** and JM Williams. Impaired renal autoregulation in susceptible models of renal disease. Curr Vasc Pharm. 2014; 12(6):859-66. PMID: 24066939.
- 11. Ge, Ying, **SR Murphy**, Y Lu, J Falck, R Liu, R Roman. Endogenously produced 20-HETE modulates myogenic and TGF response in microperfused afferent arterioles. Prostaglandins & other Lipid Mediators 2013 April-May; 102-103:42-48. PMID: 23500064. PMCID: PMC3959178.
- 12. **Murphy SR**, BBD LaMarca, M Parrish, K Cockrell, JP Granger. Control of soluble fms-like tyrosine kinase-1 (sFlt-1) production in response to placental ischemia/hypoxia: Role of tumor necrosis factor alpha (TNF-α). Am J Physiol Regul Integr Comp Physiol. 2013 Jan;304(2):R130-5. PMID: 23193111. PMCID: MPC3543655.
- 13. **Murphy SR**, AJ Dahly-Vernon, KMJ Dunn, CCA Chen, SR Ledbetter, JM Williams, RJ Roman. Renoprotective effects of anti-TGF-β antibody and antihypertensive therapies in Dahl S rats. Am J Physiol Regul Integr Comp Physiol. 2012 Jul;303(1):R57-69. PMID: 22538513. PMCID: PMC 3404639.
- 14. J Williams, F Fan, S Murphy, C Schreck, J Lazar, H Jacob, and R Roman. Role of 20-HETE in the antihypertensive effect of transfer of chromosome 5 from Brown Norway to Dahl Saltsensitive rats. Am J Physiol Regul Integr Comp Physiol. 2012 May;302(10):R1209-18. Epub 2012 Mar 21. PMID: 22442195. PMCID: PMC3362151.
- 15. **Murphy SR**, B LaMarca, K Cockrell, M Arany, JP Granger. L-arginine supplementation abolishes the blood pressure and endothelin response to chronic increases in plasma sFlt-1 in pregnant rats. Am J Physiol Regul Integr Comp Physiol. 2012 Jan 15;302(2):R259-63. Epub 2011 Nov 9. PMID: 22071155. PMCID: PMC3349388.
- 16. KB Tam Tam, B LaMarca, M Arany, K Cockrell, L Fournier, S Murphy, JN Martin Jr, JP Granger. Role of reactive oxygen species during hypertension in response to chronic antiangiogenic factor (sFlt-1) excess in pregnant rats. Am J Hypertens. 2010 Jan;24(1):110-3. PMID: 20725052
- 17. JM Williams, S Murphy, M Burke, and RJ Roman. 20-HETE: A new target for the treatment of hypertension. *Journal of Cardiovascular Pharmacology*. J Cardiovasc Pharmacol 56(4): 336-44, 2010. PMID: 20930591
- 18. Murphy SR, BBD LaMarca, K Cockrell, JP Granger. Role of endothelin in mediating soluble

- fms-like tyrosine kinase-1 (sFlt-1)-induced hypertension in pregnant rats. *Hypertension*. 2010; 55(2): 394-398. PMID: 20026766
- 19. Parrish MR, **SR Murphy**, S Rutland, K Wallace, K Wenzel, G Wallukat, S Keiser, LF Ray, R Dechend, JN Martin, JP Granger, B LaMarca. The effect of immune factors, tumor necrosis factoralpha, and agonistic autoantibodies to the angiotensin II type I receptor on soluble fms-like tyrosine-1 and soluble endoglin production in response to hypertension during pregnancy. *Am J Hypertens*. 23(8):911-6, 2010. PMID: 20431529
- 20. LaMarca B, M. Parrish, LF Ray, **SR Murphy**, L Roberts, P Glover, G Wallukat, K Wenzel, K Cockrell, JN Martin Jr, MJ Ryan, R Dechend. Hypertension in response to autoantibodies to the angiotensin II type I receptor (AT1-AA) in pregnant rats: role of endothelin-1. *Hypertension*. 54(4):905-9; 2009. PMID: 19704104. PMICID: PMC2785498.
- 21. LaMarca BBD, BT Alexander, JS Gilbert, MJ Ryan, M Sedeek, **SR Murphy**, JP Granger. Pathophysiology of Hypertension in Response to Placental Ischemia during Pregnancy: A Central Role for Endothelin?. *Gend Med.* 2008;5 Suppl A:S133-8. PMID: 18395679
- 22. Gilbert JS, MJ Ryan, BB LaMarca, M Sedeek, **SR Murphy**, JP Granger. Pathophysiology of hypertension during preeclampsia: linking placental ischemia with endothelial dysfunction. *Am J Physiol Heart Circ Physiol* 294:H541-H550, 2008. PMID: 18055511
- 23. LaMarca BD, MJ Ryan, JS Gilbert, **SR Murphy**, JP Granger. Inflammatory cytokines in the pathophysiology of hypertension during preeclampsia. *Curr Hypertens Rep.* 9(6):480-5; 2007. PMID: 18367011

Abstracts:

- 1. X He, C Zhang, **S Murphy**, PN Mims, F Fan. Role of Dusp5 in Hypertension Induced Chronic Renal Disease. April 2017. The FASEB Journal, Experimental Biology, Chicago, IL
- 2. F Fan, **S Murphy**, Y Ge, P Mims, K Maeda, J Williams, R Roman. Zinc-finger nuclease knockout of dual-specificity protein phosphatase-5 protect against DOCA-salt induced chronic renal injury. April 2017. The FASEB Journal, Experimental Biology, Chicago, IL
- 3. N Lee, SK Spencer, K Wallace, B LaMarca, **S Murphy**. 20-HETE Impedes trophoblast migration and contributes to hypertension in the RUPP Rat Model of Placental Ischemia. April 2017. The FASEB Journal, Experimental Biology, Chicago, IL
- 4. J Cotton, W Wu, S Murphy. Increases in Cytochrome P450 Expression and 20-HETE production reduce mean arterial pressure in an animal of preeclampsia. April 2017. The FASEB Journal., Experimental Biology, Chicago, IL
- 5. W Wu, **S Murphy**. Sex Differences in CYP 450 activity and the development of hypertension and renal injury in the Dahl S rat. Council on Hypertension, AHA, September 2016
- 6. **S Murphy**, N Lee, SK Spence, K Wallace, B LaMarca. Alterations in Cytochrome P450 expression and circulating 20-HETE levels contribute to maternal hypertension and decreased trophoblast migration. March 2016. The FASEB Journal. 30(1)
- 7. Lee N, Faulkner J, **Murphy S**, LaMarca B. Blockade of 20-HETE synthesis improves blood pressure and fetal survival in the RUPP rat model of preeclampsia. ISSHP, October 2015, Chicago, IL.
- 8. Fan F, W Wu, **SR Murphy**. Alterations in 20-HETE production contribute to end organ damage in Dahl S rats. Council on Hypertension, AHA, September 2015
- 9. Fan F, W Wu, **SR Murphy**. Alterations in 20-HETE production contribute to end organ damage in Dahl S rats. Cardiovascular and Metabolic Diseases: Physiology and Gender, November 2015
- 10. Lee N, S-K Spencer, BBD LaMarca, **SR Murphy**. Alterations in placental eicosanoid production contribute to impaired vascular remodeling in preeclampsia. Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health (2015). 53-156. [262-POS]
- 11. **SR Murphy**, N Lee, S Spencer. Alterations in placental eicosanoid production contribute to impaired vascular remodeling in preeclampsia. April 2015. The FASEB Journal. 29(1)
- 12. J Faulkner, S Murphy, N Lee, J Moseley, B LaMarca. Inhibition of 20-HETE synthesis

- attenuate elevations in blood pressure and uttering artery resistance index in the RUPP rat model of preeclampsia. April 2015. The FASEB Journal. 29(1)
- 13. Ge Y, S Murphy, F Fan, J Williams, J Falck, and R Roman. A deficiency in the formation of 20-HETE impairs the myogenic and TGF responses of the Af-Art of Dahl salt-sensitive rats. FASEB J April 2014 28(1):857.8
- 14. Fan F, Y Ge, **S Murphy**, A Geurts, H Jacob, R Roman. CYP4A1 transgenic rats generated using Sleeping Beauty transposon system restores the impaired myogenic responses in the afferent arteriole of Dahl S rats. Hypertension CHBPR 2013
- 15. **Murphy S**, W Wu, T White, JM Williams. Renoprotective effects of Empagliflozin in Type 1 and Type 2 models of diabetic nephropathy with hypertension.
- 16. **Murphy SR**, F Fan, R Baker, RJ Roman. Increases in outer medullary 20-HETE formation oppose the development of hypertension and improves the pressure natriuresis response in CYP4A1 transgenic rats. FASEB J April 2013
- 17. Ge Y, F Fan, **SR Murphy**, JM Williams, R Liu, J Falck, RJ Roman. Deficiency in the production of 20-HETE contributes to impaired myogenic and TGF responses in the afferent arteriole of Dahl S rats. Hypertension 2012; 60:A36.
- 18. Ge Y, Y Lu, LA Juncos, **SR Murphy**, R Liu, RJ Roman. The role of 20-HETE in myogenic responses of the afferent arterioles and tubuloglomerular feedback (TGF). Proceedings, 11. 2012.
- 19. **Murphy SR**, F Fan, R Baker, A Guertz, H Jacob, R Roman. Upregulation of renal medullary 20-HETE production opposes the development of hypertension in Sleeping Beauty Transposon CYP4A1 Transgenic Dahl S rats. FASEB J 26. 2012.
- 20. Ge Y, Y Lu, LA Juncos, **SR Murphy**, R Liu, RJ Roman. The role of 20-HETE in myogenic responses of the afferent arterioles and tubuloglomerular feedback. 2011.
- 21. **Murphy SR**, F Fan, H Jacob, A Guertz, R Baker, RJ Roman. Upregulation of the renal production of 20-HETE opposes the development of hypertension in CYP4A1 transgenic Dahl S rats. FASEB J 25, 2011.
- 22. Fan F, H Jacob, A Geurtz, **S Murphy**, RJ Roman. Generation of CYP4A1 transgenic rats using the Sleeping Beauty transposon system. FASEB J 25, 2011.
- 23. **Murphy SR**, K Cockrell, JP Granger. L-Arginine supplementation abolishes the blood pressure and endothelin response to chronic increases in plasma sFlt-1 in pregnant rats FASEB J April 6, 2010 24:1041.9
- 24. **Murphy SR**, B LaMarca, K Cockrell, JP Granger. Hypertension in response to soluble fms-like tyrosine kinase-1 during pregnancy: Role of endothelin-1. Hypertension 54 (4), E35-E36, 2009
- 25. LaMarca B, M Parrish, LF Ray, **SR Murphy**, L Roberts, P Glover, G Wallukat, K Wenzel, K Cockrell, JN Martin, MJ Ryan, R Dechend. Hypertension in response to autoantibodies to the angiotensin II type I receptor (AT1-AA) in pregnant rats: Role of endothelin-1. Hypertension 54 (4), 905-909, 2009
- 26. LaMarca, B, **SR Murphy**, M Parrish, L Ray, K Cockrell, R Dechend. Hypertension in Response to Agonistic Autoantibodies to the Angiotensin II Type I Receptor Is Associated with Increased sFlt-1 and S endoglin in Pregnant Rats. Hypertension 54 (4), E109-E109, 2009
- 27. TamTam K, BBD LaMarca, **S Murphy**, M Arany, NM Lee1, L Fournier-Ray, K Cockrell, JP Granger. Hypertension in response to chronic sFlt-1 excess during pregnancy: Role of reactive oxygen species. FASEB J, Mar 2009
- 28. **Murphy SR**, B LaMarca, J Speed, S Keiser, K Cockrell, J Granger. Soluble fms-like tyrosine-1 (sFlt-1) is enhanced in response to chronic tumor necrosis factor-alpha excess during pregnancy FASEB J 23, 2009
- 29. Parrish, M, S Murphy, R Dechend, S Keiser, E Veillon, K Cockrell, L Fournier, JN Martin, B LaMarca. Hypertension in response to agonistic autoantibodies to the angiotensin II type I receptor is associated with elevated circulating sFlt-1. American Journal of Obstetrics and Gynecology 199 (6), S158, 2008
- 30. **Murphy SR**, B LaMarca, J Speed, S Keiser, K Cockrell, J Granger. Soluble fms-like tyrosine-1 (sFlt-1) is enhanced in response to chronic tumor necrosis factor-alpha excess during pregnancy

- FASEB J 23, 2008
- 31. B LaMarca, R Dechend, L Fournier, **SR Murphy**, K Cockrell. Chronic elevations in agonistic autoantibodies to the angiotensin II type I receptor during pregnancy in rats increase arterial pressure and endothelin-1. Hypertension 52 (4), E49-E49, 2008
- 32. **Murphy SR**, B LaMarca, K Cockrell, JP Granger. Placental angiotensin II and soluble fms-like tyrosine-1 production increase in response to reductions in uterine perfusion pressure Hypertension 52 (4), E93-E93, 2008
- 33. LaMarca BB, L Roberts, MP Dukes, **SR Murphy**, L Fournier, J Speed, K Cockrell. Endothelial cell activation in response to placental ischemia in pregnant rats is mediated by agonistic autoantibodies to the angiotensin type I receptor. FASEB J, Mar 2008; 22: 969.19
- 34. **Murphy SR**, BB LaMarca, E LaMarca, K Cockrell, J Gilbert, and JP. Granger Soluble fms-like tyrosine-1 (sFlt-1) production in response to placental ischemia and hypoxia in placenta of pregnant rats FASEB J, Mar 2008; 22: 969.19
- 35. Grifoni SC, **S Murphy**, HA Drummond. Enhanced surface expression of ASIC2 inhibits VSMC migration. FASEB J 21 (5), A521-A522, 2007