

CURRICULUM VITAE

BABBETTE LAMARCA, PH.D.

PERSONAL:

Born: December 19, 1972
Jackson, Mississippi

Married: Darren LaMarca

Children: Ellen LaMarca
Emma LaMarca
Evan Charles LaMarca

ACADEMIC APPOINTMENTS:

July1, 2021 Interim Chair, Department of Pharmacology

2015 - Present Professor, Department of Pharmacology, Physiology & Obstetrics and Gynecology, University of Mississippi Medical Center, Jackson, Mississippi

2011 - 2015 Associate Professor, Department of Pharmacology, Physiology & Obstetrics and Gynecology, University of Mississippi Medical Center, Jackson, Mississippi

2007 – Present Thesis Director, MFM Fellowship, Department of Obstetrics and Gynecology, University of Mississippi Medical Center, Jackson, Mississippi

2009 – 2013 Director of Basic Science Research, Department of Obstetrics and Gynecology, University of Mississippi Medical Center, Jackson, Mississippi

2008 – 2011 Assistant Professor, Department of Obstetrics and Gynecology, University of Mississippi Medical Center, Jackson, Mississippi

2005 – 2008 Instructor, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, Mississippi

2003 – 2005 Postdoctoral Fellow, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, Mississippi

1997 – 2003 Graduate Assistant, Department of Microbiology, University of Mississippi Medical Center

1997 - 1997 Laboratory Teaching Assistant, Department of Biology, Mississippi College, Clinton, Mississippi

1996 – 1997 Teacher, General Biology; Anatomy and Physiology; Chemistry; and Physiological Sciences, University Christian School, Flowood, Mississippi

1995 – 1996 Research Assistant, Department of Preventative Medicine, University of Mississippi Medical Center, Jackson, Mississippi

1993 – 1995 Laboratory Assistant, Department of Biology, Mississippi College, Clinton, Mississippi

EDUCATION:

- 2004 – 2005 Postdoctoral Fellow, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, Mississippi.
- 2004 Ph.D., Microbiology and Immunology, University of Mississippi Medical Center, Jackson, Mississippi
- 1995 B.S., Mississippi College, Clinton, Mississippi

RESEARCH INTERESTS:

Immune mechanisms causing hypertension during pregnancy

PROFESSIONAL MEMBERSHIPS:

Society for Reproductive Investigation (SRI)

American Heart Association

American Society for Microbiology

American Physiological Society

Society for Maternal-Fetal Medicine

Perinatal Research Society

American Heart Association

DEPARTMENTAL and NATIONAL SERVICE:

- 2020-2022 Guest Editor, Reproductive Physiology and Disease, Clinical Science
- 2020-2021 Guest Editor, Frontiers in Physiology
- 2021 Peer Reviewer, American Heart Association, Immunology Section
- 2020 Associate Editor, Hypertension in Pregnancy
- 2020 Peer Reviewer NIH Program Project Grant
- 2020 Peer Reviewer AHA, Innovative Project Awards
- 2020 Peer Reviewer NIH, Pediatric and Obstetric Pharmacology and Therapeutics
- 2019 Peer Reviewer, NIH Anonymity study section
- 2018 Peer Reviewer, NIH Pregnancy and Neonatology study section
- 2018 Canada Institute of Health Research, Catalyst Grant peer reviewer: Sex as a Variable in Biomedical
- 2017 Guest Editor, AJP-RIC
- 2017-2022 Perinatal Research Society- Basic Science Councillor

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| 2017-2019 | Chair- Department of Pharmacology Faculty Recruitment Committee |
| 2016-present | Chair-Department of Pharmacology Promotion-Tenure Committee |
| 2016-present | Chair- Department of Pharmacology Faculty Mentoring Committee |
| 2015-2018 | APS Awards committee |
| 2015-2017 | APSelect Selection Board Member |
| 2015-present | Editorial Board AJP-RIC |
| 2015-present | Peer Reviewer, NIH NHLBI, Special Emphasis Panel |
| 2015-2016 | Co-Chair Department of Pharmacology Promotions and Tenure Committee, UMMC |
| 2014-2016 | Chair, American Heart Association, Vascular endothelial biology clinical Section |
| 2014 | Peer Reviewer, NIH NHLBI, Program Project (PO1) |
| 2014 | Editorial Board of Frontiers in Cardiovascular Medicine |
| 2014 | American Society of Hypertension, Annual Scientific Meeting Program Committee |
| 2014 | Editorial Board of Clinical and Experimental Hypertension |
| 2013-2014 | Co-Chair, American Heart Association, Vascular endothelial biology clinical Section |
| 2012-2015 | UMMC/GSHS Alumni Board |
| 2012-present | Chairperson, Fund U Team, UMMC |
| 2012-2015 | Peer Reviewer, American Heart Association, Immunology Section |
| 2012-2015 | Peer Reviewer, NIH NHLBI, Pathway to Independence PI Awards K99/K00 |
| 2011-2015 | At-Large Councilor for Membership, WEH section, American Physiological Society |
| 2011-present | Excellence in Research Subcommittee, University of Mississippi Medical Center |
| 2010-present | Editorial Board, <i>Hypertension</i> |
| 2010-2013 | Committee on Careers in Physiology, American Physiological Society |
| 2009-present | Reviewer for Hope Grants from the Preeclampsia Foundation |
| 2009-2013 | Delta Regions Institute Advisory Committee, UMC |
| 2009-2018 | Institutional Biosafety Committee, University of Mississippi Medical Center |
| 2009-2018 | Research Advisory Committee, University of Mississippi Medical Center |
| 2007-present | Graduate Faculty, University of Mississippi Medical Center |

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| 2006 | Team Captain, American Heart Walk, Jackson, Mississippi |
| 2005 | Organizer of Methodology Discussion Group and Medical Physiology Refresher Course |
| 2001 – 2002 | Secretary-Treasurer, Graduate Student Body Association |
| 1999 – 2000 | Vice-President, Graduate Student Body Association |

HONORS and AWARDS

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| 2021 | A. Clifford Barger Underrepresented Minority Mentorship Award, American Physiological Society |
| 2015 | Bowditch Lecturer, APS |
| 2015-2017 | APSelect Selection Board Member |
| 2013 | Excellence in Research – Gold Medal Award, University of Mississippi Medical Center |
| 2013 -2014 | APS STRIDE fellowship- mentor for underrepresent minority students |
| 2013-2016 | Medical Student Research Enhancement program- mentor for medical students in research |
| 2012 | Young Investigator Award, American Society of Hypertension |
| 2012-present | Fellow, American Heart Association |
| 2012 | Harry Goldblatt Young Investigator Award Finalist, Council for High Blood Pressure Research, American Heart Association |
| 2012-present | Full Member, Perinatal Research Society |
| 2012 | Excellence in Research – Silver Medal Award, University of Mississippi Medical Center |
| 2012-2018 | Faculty, American Society of Hypertension |
| 2009 | Excellence in Research – Bronze Medal Award, University of Mississippi Medical Center |
| 2008 – 2012 | Scientist Development Grant, American Heart Association |
| 2007 | Merck New Investigator Award, Council for High Blood Pressure Research |
| 2007 | Travel Award, American Physiological Society Conferences, Sex and Gender Differences in Cardiorenal Physiology and Pathophysiology |
| 2007 | Young Investigator Award Finalist, Experimental Biology |
| 2005 – 2008 | National Research Service Award (Postdoctoral), National Institutes of Health |

- 2005 Postdoctoral Fellowship, American Heart Association
- 2005 Young Investigator Award, IASH
- 2003 Travel Award, American Physiological Society Conference. Understanding Renal and Cardiovascular Function through Physiological Genomics
- 2001 McClesky Award for Outstanding Research by a Doctoral Student, American Society of Microbiologists.

INVITED REVIEWER:

Circulation Research

Hypertension Research

Clinical Medicine Reviews in Vascular Health

Clinical and Experimental Hypertension

Placenta

Circulation

Kidney International

Journal of Reproductive Sciences

Journal of Experimental Medicine

Journal of Renin Angiotensin Aldosterone System

American Journal of Reproductive Immunology

American Journal of Reproductive Toxicology

American Journal of Physiology

SOURCES OF RESEARCH SUPPORT:

Pending Research Support

- 7/1/2021-6/30/2026 Source: NIH NICHD
Title: Maternal B cell Interventions during placental ischemia and long term effects on adult male and female offspring
Role: LaMarca (PI);
Amount: \$1,937,501.00
- 2/1/2021-6/30/2026 Source: NIH NHLBI
Title: Inflammation, autoantibodies, hypertension and pregnancy
Role: LaMarca (PI);
Amount: \$1,937,499.00
- 7/1/2022-6/30/2024 Source: AHA
Title: CD4+ T cells cause mitochondrial oxidative stress and hypertension in RUPP rat model

Role: Deer (PI); LaMarca (Sponsor)
Amount: \$ 140,752.00

7/1/2022-6/30/2024 Source: AHA
Title: The role of B lymphocytes in causing hypertension during preeclampsia
Role: Herrock (PI); LaMarca (Sponsor)
Amount: \$ 75,000

7/1/2022-6/30/2024 Source: NIH predoctoral
Title: The role of B lymphocytes in causing hypertension during preeclampsia
Role: Herrock (PI); LaMarca (Sponsor)
Amount: \$ 107,000

7/1/2022-6/30/2024 Source: AHA
Title: The Role of TH17 and IL17 in Renal Dysfunction and Fetal Programming of Hypertension in Preeclampsia
Role: Fitzgerald (PI); LaMarca (Sponsor)
Amount: \$75,000

Current Research Support

7/1/2017-6/30/2022 Source: NIH NIGMS
Title: Mississippi Center of Excellence in Perinatal Research COBRE
Amount \$1,500,000.00 annual
Role: Director of Clinical Research and Pilot Projects, Mentor, 20%
PI: Reckelhoff

07/01/11 – 06/30/22 Source: NIH: NICHD
Title: The kidney, hypertenstion pregnancy and inflammation
Role: LaMarca (PI);
Amount: \$1,520,000.00

04/01/17 – 03/31/21 Source: NIH/NHLBI
Title: Hypertension, Kidney and Pregnancy
Role: Ryan(PI): LaMarca Co-Investigator, 5%
Amount: \$1,867,500.00

03/01/18 – 02/28/23 NIH/NHLBI R01HL138685
Title: Gen Det of Hyper
Role: Roman (PI); LaMara Co-Investigator, 5%
Amount: \$1,867,500.00

12/01/19-11/30/22 NIH/NHLB R01 143459
Title: Hyper in Adult IUGR Offspring: Beneficial Effects of Perin
Role: Alexander (PI); LaMarca Co-Investigator 5%
Amount: \$1,368,000

6/01/16 – 5/31/21 Source: NIH/NHLBI
Title: Cardiovascular dynamics and their control
Project II of the proposal seeks to determine the role of angiogenic and endothelial factors in the pathophysiology of pregnancy-induced hypertension.
Role: Hall (PI) Granger Project II PI; Co-Investigator of Project II, 5%
Amount: \$1,261,235.00

Funded Projects of LaMarca trainees (LaMarca serves as Sponsor/Mentor)

04/1/2019- 03/31/2022 Source: AHA; Career Development Award 19CDA34670055.

Title: "Benefits of progesterone: missing in action during preeclampsia.
Role: Amaral (PI)/LaMarca (Mentor)
Amount: \$231,000.00

06/01/2018 – 05/31/2019 Source: NIH/ NIGMS Pilot project on grant
Title: "Anti-inflammatory effects of progesterone: missing in action during preeclampsia"
Role: Amaral (PI)/LaMarca (Sponsor)
Amounts:\$50,000.00

04/01/2020-03/31/2022 Source: NIH NHLBI F31
Title: A role for natural killer cells in the development of intrauterine growth restriction and hypertension during pregnancy.
Role: Travis (PI)/LaMarca (co-mentor);
Source: AHA

04/1/2019- 03/31/2022 Source: AHA; Career Development Award 19CDA34670055.
Title: "Maternal interventions in response to placental ischemia; longterm effects on mother and baby.
Role: Cunningham (PI)/LaMarca (mentor);
Amount: \$231,000.00

7/1/2017-6/30/2019 Source: AHA Predoctoral grant
Title: The role of NK cells as mediators of mitochondrial oxidative stress in response to placental ischemia.
Role: Vaka (PI)/LaMarca (mentor)
Amount: \$75,000.00

12/01/16-11/31/21 Source: NIH/NHLBI K99/R00
Title: Hypertension and Inflammation
Role: Sponsor/Mentor
PI/Mentee: Denise Cornelius
Amount: \$836,700.00

01/01/16-09/29/16 American Heart Association 16SDG27520000
Title: Role for Cytolytic NK1 Cells to Mediate Endothelial Dysfunction and Hypertension during Pregnancy
Role: Cornelius, PI (LaMarca mentor)
Amount: \$308,000.00

12/05/14-12/31/15 Source: NIH/NHLBI
Title: Hypertension, the Kidney, and Inflammation
Role: Sponsor/Mentor
PI/Mentee: Denise Cornelius
Amount: \$75,000.

02/15/2012-2/1/2014 Source: NIH/NHLBI
Title: Role of CD4+ T lymphocytes in mediating hypertension in response to placental ischemia
Role: Sponsor/Mentor
PI/Mentee: Kedra Wallace
Amount: \$75,000.

Completed Research Support:

10/2016-11/2019 Source: Lumara-AMG Pharmaceuticals
 Title: 17-Hydroxyprogesterone Caproate Supplementation: A Novel Therapeutic for the Management of Preeclampsia?
 Role: LaMarca/Amaral (PI)
 Amount \$65,000

10/2016-11/2019 Source: NIH SBIR Phase 1 subcontract
 Title: Novel GPCR-targeted therapy for preeclampsia
 Role: LaMarca (PI)
 Amount \$38,000

01/01/13-4/1/16 Source: Ferring Pharmaceuticals
 Inhibiting AT1-AAAs; potential therapeutics during preeclampsia
 Role: LaMarca (PI);
 Amount: \$130,000,.00

7/1/2012-6/30/2014 Source: American society for reproductive medicine
 Title: The role of hypoxia-stimulated vasoactive peptides in the development of uterine leiomyoma
 Role: Author
 PI/Co-author:Wallace
 Amount: 50,000.

02/11/10 – 06/01/13 "Biosite Grant," Sponsored by NSA
 Title: Pre-Eclampsia Triage by Rapid Assay of Novel Biomarkers of Placental Function and Maternal Adaptation (PETRA)
 Role: LaMarca/Martin (co-PI)
 Amount: \$83,775.00

08/01/08 – 07/31/12 Source: American Heart Association, Scientist Development Grant 0835472N
 Title: The role of Agonistic Autoantibodies to the Angiotensin II type I receptor in mediating hypertension during pregnancy
 Role: LaMarca (PI)
 Amount: \$308,000.00

05/2010 – 05/2011 Source: Institutional Research Support
 Title: Molecular Analysis of Uterine Leiomyomas
 Role: LaMarca (PI)
 Amount:\$30,000.

06/2005 – 07/2008 Source: NIH-National Research Service Award
 Title: Mechanisms of Pregnancy Induced Hypertension
 Role: Lamarca (PI)
 Amount:\$153,000.

TEACHING:

Course Director, MFM Research and Thesis Defense 2009-current 80 contact hours/sem

Course Director, MFM Research Tool in Molecular Biology 2009-2016 40 contact hours/sem

Lecturer, MFM Captsone Research 2021 8 Contact hours/sem

Lecturer, Medical Pharmacology 2013- Present 4 Contact hours/sem

Lecturer, Dental Pharmacology 2013-Present 2 Contact hours/year

Lecturer, Mechanisms of Drug Action 2014-Present 4 Contact hours/sem

Lecturer, Experimental Design and Methods 2014-present 4 Contact hours/sem

Lecturer, Medical Physiology, Clinical Correlation, 2013-2018 2 Contact hours/sem

| TRAINEES: CURRENT POSITIONS | CAPACTIY OF TRAINING | TIME IN TRAINING |
|---|---------------------------------|-------------------------|
| 1. Lyndsey Roberts, M.D. Undergradrad Summer Research, & M2, M3, M4 years Dermatology Associates of Oxford Oxford MS | | 2003 – 2010 |
| 2. Derrick Chandler, Ph.D. General Anesthesiologist Specialty Hospital of Meridian, Merit Health Madison, Anderson Regional Medical Center, Rush Foundation Hospital | Graduate student | 2005 - 2009 |
| 3. Batira Acosta, Ph.D. Assistant Professor, Faculdade de Medicina Pontificia Universidade Católica do Rio Grande do Sul | Visiting Professor | 2005 – 2006 |
| 4. Matt Dukes, Ph.D. Chemist at Cirquest Lab | Summer Undergratuete Researcher | 2006 – 2007 |
| 5. Josh Speed, Ph.D Assistant Professor Department of Physiology University of MS Medical Center | Graduate Student | 2007 – 2011 |
| 6. Sydney Roberts, Ph.D. Associate Professor Associate Dean of Academic Affairs School of Graduate Studies in the Health Sciences University of Mississippi Medical Center Department of Pharmacology University of MS Medical Center | Graduate Student | 2006 – 2010 |
| 7. Sharon Keiser, M.D. Associate Professor, MFM Specialist USC-Greenville Hosp System Greenville South Carolina | MFM Fellow | 2007 – 2009 |
| 8. Edward Veillon, M/D. MFM Specialist Women's Hospita, Baton Rouge LA | MFM Fellow | 2007 – 2009 |

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| 9. Marc Parrish, D.O. Associate Professor, MFM Specialist, University of Kansas | MFM Fellow | 2007 – 2010 |
| 10. Kiran Tam Tam, M.D. Assistant Professor, MFM Specialist Baylor Medical Center | MFM Fellow | 2008 – 2011 |
| 11. Sarah Richards Novotney, M.D. Assistant Professor MFM Specialist Dept of OB/GYN University of Mississippi Medical Center | MFM Fellow | 2009 – 2012 |
| 12. Pushpinder Dhillan, M.D. MFM specialists, OB/GYN, Stafford, VA | MFM Fellow | 2009 – 2012 |
| 13. Justin Brewer, M.D. North MS Med Ctr. Tupelo MS | MFM Fellow | 2010 – 2013 |
| 14. Louissa Kipprono, M.D. MFM Associates, Evansville Indiana. | MFM Fellow | 2010 – 2013 |
| 15. Kedra Wallace, Ph.D. Associate Professor, Director, Masters of Clinical Science Director of Research Dept. of OB/GYN, UMMC | Postdoctoral Fellow | 2010 – 2014 |
| 16. Marie Darby, M.D. MFM Specialist Hattiesburg MS | MFM Fellow | 2011-2014 |
| 17. Javier Castillo, M.D. MFM Specialist, San Antonio, TX | MFM Fellow | 2012-2015 |
| 18. Rachel Morris, M.D. Assistant Professor Dept. OB/Gyn University of Mississippi Medical Center | MFM Fellow | 2012-2015 |
| 19. Jeremy Scott Occupational Therapist UMMC Clinics | Undergraduate student research MS-INBRE Summer Undergraduate Research APS STRIDE research Fellow | 2011-2018 2011-2012 2013-2014 |
| 20. Nathan Usry | Undergraduate Researcher | 2015-2017 |

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| | Medical Student Researcher | 2017-present |
| 21. Denise Cornelius, Ph.D. | Postdoctoral Fellow | 2012-2015 |
| Assistant Professor Director of Preclinical Research Dept. of Emergency Medicine University of Mississippi Medical Center | | |
| 22. Lorena M. Amaral, Ph.D | Postdoctoral Fellow | 2013-2018 |
| Assistant Professor Dept of Pharmacology University of Mississippi Medical Center | | |
| 23. Jose Santiago Font, M.D. | MFM Fellow | 2013-2016 |
| Private Practice in Ponce, Puerto Rico | | |
| 24. Nicole Plenty | MFM Fellow | 2013-2016 |
| Obstetrix Medical Group of Houston Houston TX | | |
| 25. Adrienne Page | Medical Research Student Program | 2013-2016 |
| OB/GYN Physicians and Surgeons Group Columbus/Starkville, Mississippi | | |
| 26. Carrie Shoemaker | Medical Student Research Fellow | 2013-2014 |
| Hematology Fellow University of Mississippi Medical Center | | |
| 27. Mark Cunningham | Postdoctoral Fellow | 2014-2018 |
| Assistant Professor Department of Pharmacology University of Mississippi Medical Center | | |
| 28. Jamil Elfarra, M.D. | MFM Fellow | 2014-2017 |
| MFM Specialist Maternal Fetal Care Louisville, Kentucky | | |
| 29. Cynthia Bean, M.D. | MFM Fellow | 2014-2017 |
| MFM specialist Jackson MS | | |
| 30. Ashlyn Harmon | Graduate Student | 2013-2015 |
| Research Assistant Professor LSU Baton Rouge, Louisiana | | |
| 31. Jessica Faulkner | Graduate Student | 2014-2016 |
| Assistant Professor Department of Physiology Augusta University in Georgia | | |
| 32. Tarik Ibrahim, MS | Graduate Student | 2014-2016 |

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| | Research Associate Department of Endodontics UT Health San Antonio San Antonio, TX | Researcher IV | 2016-2020 |
| 33. | Kristen McMasters, M.D. Obstetrix Medical Group Houston, Texas | MFM Fellow | 2015-2018 |
| 34. | Jacob Gibbons MFM Specialist Santa Clara Homestead Santa Clara CA | MFM Fellow | 2015-2018 |
| 35. | Venkata Vaka Ramana Postdoctoral Fellow Ottawa Heart Institute Ottawa Canada | Graduate Student | 2016-2019 |
| 36. | Jesse Cotrell, M.D. Associate Professor at Marshall University MFM Specialist Marshall Health Hunington, West Virginia | MFM Fellow | 2016-2019 |
| 37. | Aswathi Jarayam M.D. Assistant Professor MFM Specialist University of Chicago Chicago Illinois | MFM Fellow | 2017-2020 |
| 38. | Jamie Lynn Sczcepanski, MD MFM Specialist General Physicians, Women's Healthcare Buffalo, New York | MFM Fellow | 2017-2020 |
| 39. | Kristin Reeve, M.D. | MFM Fellow | 2018-present |
| 40. | Evangeline Deer, Ph.D. | Postdoctoral Fellow | 2019-present |
| 41. | Jay Hogg M.D. | AHA Medical Student Research Fellow MFM Fellow | 2012-2013 2019-present |
| 42. | Alexis Wincher | MSRP Student | 2018-2021 |
| 43. | Sarah Fitzgerald | Pharmacology Graduate Student | 2019-present |
| 44. | Darby Whitney | MSRP Student | 2020 |
| 45. | Francis Lawson | MSRP Student | 2020 |
| 46. | Owen Herrock | Pharmacology Graduate Student | 2019-present |

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| 47. Nathan Campbell | Base Pair Student Summer Undergraduate Research (SURE) Pharmacology Graduate Student | 2013-2015 2016,2017,2018 2019-present |
| 48. Dillon Solis, MD | MFM Fellow | 2020-present |

PUBLICATIONS:

Journal Articles

1. **LaMarca BB** Functional Characterization of Siderophore Synthesis in Mycobacterium smegmatis: Identification of New Mycobactin Synthesis Genes. 2003 (Dissertation)
2. **LaMarca BB** Arceneaux, JEL, Byers, BR, Lundrigan, MD. Participation of fad and mbt Genes in Synthesis of Mycobactin in Mycobacterium smegmatis J. Bacterio. 2004 Jan;186(2):374-82. PMID: 14702306; PMCID: PMC305775.
3. **LaMarca BB**, Cockrell K, Sullivan E, Bennett W, Granger JP. Role of endothelin in mediating TNF alpha-induced hypertension in pregnant rats. Hypertension; 2005 Jul;46(1):82-6. PMID: 15928030.
4. **LaMarca BB**, William A. Bennett, Barbara T. Alexander, Kathy Cockrell, and Joey P. Granger. Hypertension produced by reductions in uterine perfusion in the pregnant rat: Role of tumor necrosis factor alpha. Hypertension. 2005 Oct;46(4):1022-5. PMID: 16144982.
5. Roberts L, **LaMarca BB**, Fournier L, Bain J, Cockrell K, Granger JP. Enhanced endothelin synthesis by endothelial cells exposed to sera from pregnant rats with decreased uterine perfusion. Hypertension. 2006 March; 47(3) 615-8. PMID: 16391174.
6. Granger JP, **LaMarca BB**, Cockrell K, Sedeek M, Balzi C, Chandler D, Bennett W. Reduced uterine perfusion pressure (RUPP) model for studying cardiovascular-renal dysfunction in response to placental ischemia. Methods Mol Med. 2006, 122:383-92. PMID: 16511995.
7. Gadonski G, **LaMarca BB**, Sullivan E, Bennett W, Chandler D, Granger JP. Hypertension produced by reductions in uterine perfusion in the pregnant rat: Role of Interleukin-6. Hypertension. 2006 Oct; 48(4):711-6. PMID: 16940225.
8. Granger JP, Abram S, Stec D, Chandler D, Speed J, **LaMarca BB**. Endothelin, the Kidney, and Hypertension. Current Hypertension Reports, 2006; 8:298-303. PMID: 16884660.
9. **LaMarca BB**, Ryan MJ, Granger JP. Pathophysiology of Hypertension During Preeclampsia: Role of Inflammatory Cytokines. Current Hypertension Reviews. 2007 3;1:69-74.
10. Gilbert J, Dukes M, **LaMarca BB**, Cockrell K, Babcock S, Granger JP. Effects of Reduced Uterine Perfusion Pressure on Blood Pressure and Metabolic Factors in Pregnant Rats. Am. J.Hypertens. 2007 Jun;20(6):686-91. PMID: 17531929; NIHMSID:NIHMS25568.
11. **LaMarca BB**, Chandler D, Grubbs L, Bain J, McMlemore G, Granger JP, Ryan MJ. Role of Sex Steroids in Modulating TNF alpha induced changes in Vascular Function and Blood Pressure. Am. J. Hypertens. 2007 Nov 20;(11) 1216-1221. PMID: 17954370; PMCID: PMC2094114.
12. Jernigan NK, **LaMarca BB**, Speed J, Galmiche L, Granger JP, Drummond HA. Dietary salt enhances benzamil sensitive component of myogenic constriction in mesenteric arteries. Am J Physiol Heart Circ Physiol. 2008 Jan;294(1):H409-20. PMID: 18024548.
13. **LaMarca BB**, Ryan MJ, Gilbert J, Murphy S, Granger JP. Pathophysiology of Hypertension during Preeclampsia: Role of Inflammatory Cytokines. Current Hypertension Reports 2007 Dec; 9(6):480-485. Review. PMID: 18367011; NIHMSID:NIHMS95389.
14. **LaMarca BB**, Alexander BT, Gilbert J, Ryan MJ, Sedeek M, Murphy SR, Granger JP. Pathophysiology of Hypertension in Response to Placental Ischemia during Pregnancy: A Central Role for Endothelin? Gender Medicine. 2008. 5(A); S133-8. Review. PMID: 18395679; PMCID: PMC2776712.
15. Gilbert JS, Ryan MJ, **LaMarca BB**, Sedeek M, Murphy SR, Granger JP. Pathophysiology of hypertension during preeclampsia: linking placental ischemia with endothelial dysfunction. Am J Physiol Heart Circ Physiol. 2008 Feb;294(2):H541-50. Review. PMID: 18055511; NIHMSID: NIHMS95386.

16. Gilbert JS, **LaMarca BB**, Granger JP. ACE2 and ANG-(1-7) in the gravid uterus: the new players on the block. *Am J Physiol Regul Integr Comp Physiol*. 2008 Mar;294(3):R915-6. PMID: 18199593; NIHMSID:NIHMS95387.
17. **LaMarca BB**, Gilbert J, Granger JP. Recent Progress Toward the Understanding of the Pathophysiology of Hypertension during Preeclampsia. *Hypertension*. 2008 51:4(2); 982-988. PMID: 18259004; PMCID:2782443
18. Jernigan NL, Speed J, **LaMarca B**, Granger JP, Drummond HA Angiotensin II regulation of renal vascular ENaC proteins. *Am J Hypertens*. 2009 Jun;22(6):593-7. PMID:19325536; PMCID: PMC2787100.
19. Sedeek, M, Gilbert, JS, **LaMarca BB**, Shollok, M, Chandler, DL, Wang, Y, Granger, JP. Role of reactive oxygen species in hypertension produced by reduced uterine perfusion in pregnant rats. *Am J Hypertens*. 2008 Oct;21(10):1152-6. PMID: 18670418; PMCID: PMC2786058.
20. **LaMarca BB**, Speed J, Fournier L, Babcock SA, Berry H, Cockrell K, Granger JP. Hypertension in response to chronic reductions in uterine perfusion in pregnant rats: Effect of TNF alpha blockade. *Hypertension* 2008;56:1161-7. PMID: 18981324; PMCID2788766
21. **LaMarca BB**, Wallukat G, Llinas M, Herse F, Dechend R, Granger JP. Agonistic autoantibodies to the angiotensin type 1 (AT1-AA) receptor in response to placental ischemia and TNF alpha in pregnant rats. 2008 *Hypertension*;52:7-11. PMID: 18852381; PMCID2782765
22. Suo G, Sadarangani A, **LaMarca B**, Cowan B, Wang JY. Murine Xenograft Model for Human Uterine Fibroids: An In Vivo Imaging Approach. 2009, *RepSciences*; 16:827-842. PMID: 19516078.
23. Edward W. Veillon Jr., Sharon D Keiser, Marc R. Parrish, William Bennett, Kathy Cockrell, Lillian Fournier, Joey P. Granger, James N Martin Jr., **LaMarca, BB.** 17 OHP blunts the hypertensive response associated with Reductions in Uterine Perfusion Pressure in pregnant rats. *Journal of Obstetrics and Gynecology* 2009, 201:324-329. PMID: 19733289; PMCID2810642
24. Sharon D. Keiser, Edward W. Veillon, Marc R. Parrish, William Bennett, Kathy Cockrell, Lillian Fournier, Joey P. Granger, James N Martin Jr., **LaMarca BB.** Effects of 17-hydroxyprogesterone on tumor necrosis factor-alpha-induced hypertension during pregnancy. *Am J Hyp*. 2009:149. PMID: 19745821; PMCID2810643
25. **LaMarca B**, Parrish M, Ray LF, Murphy SR, Roberts L, Glover P, Wallukat G, Wenzel K, Cockrell K, Martin JN Jr, Ryan MJ, Dechend R. Hypertension in response to autoantibodies to the angiotensin II type I receptor (AT1-AA) in pregnant rats: role of endothelin-1. *Hypertension*. 2009 Oct;54(4):905-9. PMID: 19704104; PMCID: PMC2785498.
26. Chandler, D.L., Llinas, M.T., Reckelhoff, J.F., **LaMarca BB.**, Speed, J., and Granger, J.P. Effects of hyperhomocysteinemia on arterial pressure and nitric oxide production in pregnant rats. *Am. J. Hypertension*. 2009 (10):1115-9. PMID: 19629051; PMCID2824241
27. Sartori-Valinotti JC, Venegas-Pont MR, **LaMarca BB**, Romero DG, Yanes LL, Racusen LC, Jones AV, Ryan MJ, Reckelhoff JF. Rosiglitazone reduces blood pressure in female Dahl salt-sensitive rats. *Steroids*. 2010 Nov;75(11):794-9. PMID: 19883672; PMCID: PMC2891303.
28. Murphy, S.R., **LaMarca BB**, Cockrell, K., Granger J.P. Soluble fms-Like Tyrosine-1 Induced Hypertension: Role of Endothelin. *Hypertension*. 2010 Feb;55(2):394-8. PMID: 20026766; PMCID: PMC2833966.
29. **LaMarca BB.** Progress toward identifying potential markers for preeclampsia: role of agonistic autoantibodies to the angiotensin II type I receptor. *Hypertension*. 2010 Feb;55(2):236-7. PMID: 19996067; PMCID3061341
30. **LaMarca BB.** The role of immune activation in contributing to vascular dysfunction and the pathophysiology of hypertension during preeclampsia. *Minerva Ginecol*. 2010 Apr;62(2):105-20. PMID: 20502423; PMCID: PMC3740963.
31. Parrish MR, Murphy SR, Rutland S, Wallace K, Wenzel K, Wallukat G, Keiser S, Ray LF, Dechend R, Martin JN, Granger JP, **LaMarca BB.** The Effect of Immune Factors, Tumor Necrosis Factor-alpha, 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*. 2010 Aug;23(8):911-6. PMID: 20431529; PMCID: PMC3500852.
32. TamTam K., **LaMarca BB** Arany M., Cockrell K., Fournier L., Murphy S., Martin, JN Jr., Granger JP., Role of reactive oxygen species during hypertension in response to chronic antiangiogenic factor

- (sFlt-1) excess in pregnant rats. *Am J Hypertens*. 2011 Jan;24(1):110-3 PMID: 20725052; PMCID: PMC3129783.
33. Venegas-Pont M, Manigrasso MB, Grifoni SC, **LaMarca BB**, Maric C, Racusen LC, Glover PH, Jones AV, Drummond HA, Ryan MJ. Tumor necrosis factor-alpha antagonist etanercept decreases blood pressure and protects the kidney in a mouse model of systemic lupus erythematosus. *Hypertension*. 2010 Oct;56(4):643-9. PMID: 20696988; PMCID: PMC2989495.
 34. **LaMarca BB**, Wallace K, Granger J. Role of angiotensin II type I receptor agonistic autoantibodies (AT1-AA) in preeclampsia. *Curr Opin Pharmacol*. 2011 Apr;11(2):175-9. Review. PMID: 21317038; PMCID: PMC3075337.
 35. **LaMarca BB**, Kedra Wallace, Florian Herse, Gerd Wallukat, Abram Weimer, Ralf Dechend. Hypertension in response to placental ischemia during pregnancy: Role of B lymphocytes. *Hypertension* 2011; 57(4):865-871. PMID: 21357287 PMCID: PMC3109629
 36. Kedra Wallace, Sarah Richards, Abram Weimer, James N Martin Jr, **LaMarca BB**. CD4+ T helper cells stimulated in response to placental ischemia mediate hypertension in pregnant rats. *Hypertension*. 2011; May 57;(5)949-55. PMID: 21464392; PMCID:3144629
 37. Parrish M R., Wallace K, Dechend R, Weimer A, Wenzel K, Wallukat G, Ray L F, Arany M, Tam Tam K, Cockrell K, Martin JN., Jr., **LaMarca BB**, Hypertension in response to AT1-AA: role of reactive oxygen species (ROS) in preeclampsia. *Am J of Hyp*. 2011 Jul;24(7):835-40. PMID: 21472019.
 38. Tam Tam KB., George E, Cockrell K, Arany M, Speed J, Martin JN Jr., **LaMarca BB**, Granger,JP. ETA receptor antagonist attenuates placental ischemia-induced hypertension and uterine vascular resistance. *Am J Obstet Gynecol*. 2011 Apr;204(4):330.e1-4. PMID: 21458623; PMCID: PMC3072697.
 39. Wenzel K, Rajakumar A, Haase H, Geusens N, Hubner N, Schulz H, Brewer J, Roberts L, Hubel CA, Herse F, Hering L, Qadri F, Lindschau C, Wallukat G, Pijnenborg R, Heidecke H, Riemekasten G, Luft FC, Muller DN, **LaMarca BB**, Dechend R. Angiotensin II Type 1 Receptor Antibodies and Increased Angiotensin II Sensitivity in Pregnant Rats. *Hypertension*. 2011 Jul;58(1):77-84. PMID: 21576625; PMCID: PMC3597080.
 40. Parrish MR, Ryan MJ, Glover P, Brewer J, Ray L, Dechend R, Martin JN Jr, **LaMarca BB**. Angiotensin II type 1 autoantibody induced hypertension during pregnancy is associated with renal endothelial dysfunction. *Gen Med*. 2011 Jun;8(3):184-8. PMID: 21600854; PMCID: PMC3225254.
 41. Gutkowska J, Granger JP, **LaMarca BB**, Danalache BA, Wang D, Jankowski M. Changes in cardiac structure in hypertension produced by placental ischemia in pregnant rats: effect of tumor necrosis factor blockade. *J Hypertens*. 2011 Jun;29(6):1203-12. PMID: 21505354.
 42. **LaMarca BB**, Brewer J, Wallace K. IL-6-induced pathophysiology during pre-eclampsia: potential therapeutic role for magnesium sulfate? *Int J Interferon Cytokine Mediat Res*. 2011 Jul;2011(3):59-64. PMID: 22140321; PMCID: PMC3227031.
 43. **LaMarca BB**, Speed J, Ray LF, Cockrell K, Wallukat G, Dechend R, Granger J. Hypertension in response to IL-6 during pregnancy: role of AT1-receptor activation. *Inter. J of interferon, cytokine, and mediator res*. 2011 Nov;3:65 – 70. PMID: 23002372; PMCID: PMC3446210.
 44. Ryan MJ, Gilbert EL, Glover PH, George EM, Masterson CW, McLemore GR Jr, **LaMarca BB**, Granger JP, Drummond HA. Placental ischemia impairs middle cerebral artery myogenic responses in the pregnant rat. *Hypertension*. 2011. Dec; 58(6): 1126-31. PMID: 22068864; PMCID: PMC3488858.
 45. Speed JS, **LaMarca BB**, Berry H, Cockrell K, George EM, Granger JP. Renal medullary endothelin-1 is decreased in Dahl salt-sensitive rats. *Am J Physiol Regul Integr Comp Physiol*. 2011 Aug;301(2):R519-23. PMID: 21613578; PMCID: PMC3154719.
 46. Murphy SR, **LaMarca BB**, Cockrell K, Arany M, Granger JP. 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. PMID: 22071155; PMCID: PMC3349388.
 47. **LaMarca B**, Parrish MR, Wallace K. Agonistic Autoantibodies to the Angiotensin II Type I Receptor Cause Pathophysiologic Characteristics of Preeclampsia. *Gen Med*. 2012 Jun;9(3):139-46. PMID: 22498426; PMCID: PMC3483641.
 48. Novotny SR, Wallace K, Heath J, Moseley J, Dhillon P, Weimer A, Wallukat G, Herse F, Wenzel K, Martin JN Jr, Dechend R, **LaMarca B**. Activating autoantibodies to the angiotensin receptor are important in mediating hypertension in response to adoptive transfer of RUPP CD4+ T Lymphocytes.

- Am J Physiol Regul Integr Comp Physiol. 2012 May 15;302(10):R1197-201. PMID: 22461177; PMCID: PMC3362148..
49. Li J., **LaMarca B**, Reckelhoff, J. A Model of Pre-eclampsia in Rats: The Reduced Uterine Perfusion Pressure (RUPP) Model. Am J Physiol Heart Circ Physiol. 2012 Jul;303(1):H1-8. Review. PMID: 22523250; PMCID: PMC3404644.
 50. **LaMarca B**. Endothelial dysfunction: An important mediator in the pathophysiology of hypertension during pre-eclampsia. Minerva Ginecol. 2012 Aug;64(4):309-20. PMID: 22728575; PMCID 3796355
 51. Dhillon P, Wallace K, Herse F, Scott J, Wallukat G, Heath J, Moseley J, Martin JN Jr, Dechend R, **Lamarca B**. IL-17 mediated oxidative stress is an important stimulator of AT1-AA and hypertension during pregnancy. Am J Physiol Regul Integr Comp Physiol. 2012 Aug 15;303(4):R353-8. PMID: 22718806; PMCID: PMC3423993.
 52. Wallace K, Novotny SR, Heath J, Moseley J, Martin JN Jr, Owens MY, **LaMarca B**. Hypertension in response to CD4+ Tcells from RUPP rats is associated with activation of the ET-1 system. Am J Physiol Regul Integr Comp Physiol. 2012 Jul 15;303(2):R144-9. PMID: 22647295; PMCID: PMC3404637.
 53. Herse F, **LaMarca B**, Hubel CA., Kaartokallio T, Lokki AI, Ekholm E, Laivuori H, Gauster M, Huppertz B, Sugulle M, Ryan MJ., Novotny S, Brewer J, Park JK, Kacik M, Hoyer J, Verlohren S, Wallukat G, Rothe M, Luft FC, Muller DN, Schunck WH, Staff AC, and Dechend R. CYP2J2 expression and circulating epoxyeicosatrienoic metabolites in preeclampsia. Circulation. 2012 Dec 18;126(25):2990-9. PMID: 23155181; PMCID: PMC3543781.
 54. Murphy SR, **LaMarca BB**, Parrish M, Cockrell K, Granger JP. Control of soluble fms-like tyrosine-1 (sFlt-1) production response to placental ischemia/hypoxia: role of tumor necrosis factor- α . Am J Physiol Regul Integr Comp Physiol. 2013 Jan;304(2):R130-5. PMID: 23193111; PMCID: PMC3543655.
 55. Brewer J, Owens MY, Wallace K, Reeves AA, Morris R, Khan M, **LaMarca B**, Martin JN Jr. Posterior Reversible Encephalopathy Syndrome In 46 Of 47 Patients With Eclampsia. Am J Obstet Gynecol. 2013 Jun;208(6):468.e1-6. PMID: 23395926.
 56. Martin JN Jr, Brewer JM, Wallace K, Sunesara I, Canizaro A, Blake PG, **LaMarca B**, Owens MY. Hellp Syndrome and Composite Major Maternal Morbidity: Importance of Mississippi Classification System. J Matern Fetal Neonatal Med 2013 Aug;26(12):1201-6. Review. PMID: 23387811.
 57. Wallace K, Martin JN Jr, Tam KT, Wallukat G, Dechend R, **Lamarca B**, Owens MY. Seeking the mechanism(s) of action for corticosteroids in HELLP syndrome: SMASH study. Am J Obstet Gynecol. 2013 May;208(5):380.e1-8. PMID: 23380266.
 58. Parrish MR, Martin JN Jr, **Lamarca BB**, Ellis B, Parrish SA, Owens MY, May L. Randomized, placebo controlled, double blind trial evaluating early pregnancy phytonutrient supplementation in the prevention of preeclampsia. J Perinatol. 2013 Aug;33(8):593-9. PubMed PMID: 23448939.
 59. Kiprono LV, Wallace K, Moseley J 3rd, Martin JN Jr, **Lamarca B**. Progesterone Blunts Vascular Endothelial Cell Secretion of Endothelin-1 in Response to Placental Ischemia. Am J Obstet Gynecol 2013;209:44.e1-6. PMID: 23545163; PMCID: PMC4052216.
 60. Herse F, **LaMarca B**. Angiotensin II Type 1 Receptor Autoantibody (AT1-AA)-Mediated Pregnancy Hypertension. Am J Reprod Immunol. 2013 Apr;69(4):413-8. PMID: 23279165; PMCID3845346
 61. **LaMarca B**, Corneius D, Wallace K., Elucidating immune mechanisms causing hypertension during pregnancy. Physiology. 2013 Jul;28(4):225-33. Review. PMID: 23817797; PMCID: PMC3742131.
 62. Darby M, Martin J N, **LaMarca B**. A complicated role for the renin--angiotensin system during pregnancy: highlighting the importance of drug discovery. Expert Opinion in Drug Safety. 2013 Nov;12(6):857-64. Review. PubMed PMID: 23915333.
 63. Brewer J, Liu R, Lu Y, Scott J, Wallace K, Wallukat G, Moseley J, Herse F, Dechend R, Martin J, **LaMarca B**. Endothelin-1, oxidative stress and endogenous ANGII: mechanisms of AT1-AA Enhanced Renal and Blood Pressure Sensitivity during pregnancy. Hypertension. 2013 Nov;62(5):886-92. PMID: 24041954; PMCID 3845356
 64. Cornelius D C, Hogg JP, Scott J, Wallace K, Herse F, Moseley J, Wallukat G, Dechend R and **LaMarca B**. Administration of IL-17 soluble receptor (RC) Suppressed TH17 cells attenuates oxidative stress and hypertension in response to placental ischemia during pregnancy, Hypertension. 2013; Dec; 62(6): 1068-73. PMID: 24060899; PMCID 3899693

65. Novotny S, Wallace K, Herse F, Moseley J, Darby M, Heath J, Gill J, Wallukat G, Martin JN, Dechend R and **LaMarca B**. CD4+ T Cells Play a Critical Role in Mediating Hypertension in Response to Placental Ischemia. *J Hypertens*. 2013 Jun 17;2. PMID: 25401050; PMCID 533211
66. Cornelius DC, Wallace K, Kiprono L, Dhillon P, Moseley J, **LaMarca B**. Endothelin-1 is not a Mechanism of IL-17 Induced Hypertension during Pregnancy. *Med J Obstet Gynecol*. 2013 Sep 19;1(1). PMID: 25414910; PMCID: PMC4235661.
67. Darby MM, Wallace K, Cornelius D, Chatman KT, Mosely J, Martin JN, Purser CA, Baker RC, Owens M T, and **LaMarca B**. (2013) Vitamin D Supplementation Suppresses Hypoxia-Stimulated Placental Cytokine Secretion, Hypertension and CD4+ T Cell Stimulation in Response to Placental Ischemia. *Med J Obstet Gynecol* 2013 Sep 23;1(2). PMID: 25414911; PMCID: PMC4235666.
68. Amaral LM, Kiprono L, Cornelius DC, Shoemaker C, Wallace K, Moseley J, Wallukat G, Martin JN Jr, Dechend R, **LaMarca B**. Progesterone supplementation attenuates hypertension and the autoantibody to the angiotensin II type I receptor in response to elevated interleukin-6 during pregnancy. *Am J Obstet Gynecol*. 2014 Aug;211(2):158.e1-6. PMID: 24548847; PMCID: PMC4117731.
69. Wallace K, Morris R, Kyle P B., Darby M, Cornelius D, Scott J, Moseley J, Frazier K, **LaMarca B**. Hypertension, inflammation and T lymphocytes are increased in a rat model of HELLP Syndrome, *Hypertens Pregnancy*. 2014; 33(1): 41–54. PMID: 24380504; PMCID 582074
70. Cornelius DC, **LaMarca B**. TH17 and IL-17 mediated autoantibodies and placental oxidative stress play a role in the pathophysiology of pre-eclampsia. *Minerva Ginecol*. 2014 Jun;66(3):243-9. Review. PMID: 24971780; PMCID: PMC5089699.
71. Mathis KW, Wallace K, Flynn ER, Maric-Bilkan C, **LaMarca B**, Ryan MJ. Preventing Autoimmunity Protects Against the Development of Hypertension and Renal Injury. *Hypertension*. 2014 Oct; 64 (4) : 792-800. PMID: 25024282; PMCID: PMC4353646.
72. Wallace K, Chatman K, Porter J, Johnson V, Moseley J, **LaMarca B**. Endothelin-1 is elevated in plasma and explants from patients suffering with uterine leiomyomas. 2014 Sep;21(9):1196-205. PMID: 25138825; PMCID: PMC4212345.
73. Wallace K, Cornelius D, Scott J, Heath J, Moseley J, Chatman K, **LaMarca B**. CD4+T cells are important mediators of oxidative that cause hypertension in response to placental ischemia 2014 *Hypertension*. Nov;64(5):1151-8. PMID: 25259742; PMCID: PMC4351721.
74. Johnson AC, Tremble SM, Chan SL, Moseley J, **LaMarca B**, Nagle KJ, Cipolla MJ. Magnesium sulfate treatment reverses seizure susceptibility and decreases neuroinflammation in a rat model of severe preeclampsia. *PLoS One*. 2014;9(11):e113670. PMID: 25409522; PMCID: PMC4237502.
75. Amaral LM, Cornelius DC, Harmon A, Moseley J, Martin JN Jr, **LaMarca B**. 17-hydroxyprogesterone caproate significantly improves clinical characteristics of preeclampsia in the reduced uterine perfusion pressure rat model. *Hypertension*. 2015 Jan;65(1):225-31. PMID: 25368030; PMCID: PMC4350787.
76. Amaral LM., Cunningham Jr., MW, Cornelius DC., and **LaMarca B**. Preeclampsia: long term consequences for vascular health. *Vasc Health Risk Manag*. 2015;11:403-15. Review. PMID:6203257; PMCID: PMC4508084.
77. Harmon A C., Cornelius DC., Amaral LM., Paige A., Herse F, Ibrahim T, Wallukat G, Faulkner J L., Moseley J, Dechend R, **LaMarca B**. IL-10 supplementation increases Tregs and decreases hypertension in the RUPP rat model of preeclampsia. *Hypertension in Pregnancy*. 2015;34(3):291-306. PMID: 25996051; PMCID: PMC4904776.
78. Przybyl L, Ibrahim T, Haase N, Golic M, Rugor J, Luft FC, Bendix I, Serdar M, Wallukat G, Staff AC, Müller DN, Hünig T, Felderhoff-Müser U, Herse F, **LaMarca B**, Dechend R. Regulatory T Cells Ameliorate Intrauterine Growth Retardation in a Transgenic Rat Model For Preeclampsia. *Hypertension*. 2015 Jun;65(6):1298-306. PMID: 25847949; PMCID: PMC5127436.
79. Cornelius DC, Amaral LM, Thomas AJ, Campbell N, Scott J, Wallace K, Harmon A, Herse F, Haase N, Wallukat G, Dechend R and **LaMarca B**. An Increased Population of Regulatory T cells improves the Pathophysiology of placental ischemia in a rat model of preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2015 Oct 15;309(8):R884-91. PMID: 26290102; PMCID: PMC4666948.
80. Cornelius DC, Castillo J, Porter J, Amaral LM, Campbell N, Paige A, Thomas AJ, Harmon AC, Cunningham MW Jr, Wallace K, Herse F, Wallukat G, Dechend R, **LaMarca BD**. Blockade of CD40 ligand reduces hypertension, placental oxidative stress, and AT1-AA in response to adoptive transfer of CD4+ T lymphocytes from RUPP rats. *Am J Physiol Regul Integr Comp Physiol*. 2015 Nov 15;309(10):R1243-50. PMID: 26676250; PMCID: PMC4796742.

81. Faulkner JL, Cornelius DC, Amaral LM, Harmon AC, Cunningham MW Jr, Darby MM, Ibrahim T, Thomas DS, Herse F, Wallukat G, Dechend R, **LaMarca BD**. Vitamin D supplementation improves pathophysiology in a rat model of preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2016 Feb 15;310(4):R346-54. PMID: 26676250; PMCID: PMC4796742.
82. Harmon AC, Cornelius DC, Amaral LM, Faulkner JL, Cunningham MW Jr, Wallace K, **LaMarca B**. The role of inflammation in the pathology of preeclampsia. *Clin Sci (Lond)*. 2016 Mar 1;130(6):409-19. Review. PMID: 26846579; PMCID: PMC5484393.
83. **LaMarca B**, Amaral LM, Harmon AC, Cornelius DC, Faulkner JL, Cunningham MW Jr. Placental Ischemia and Resultant Phenotype in Animal Models of Preeclampsia. *Curr Hypertens Rep*. 2016 Apr;18(5):38. PMID: 27076345; PMCID: PMC5127437.
84. **LaMarca BD**, Cornelius DC, Harmon AC, Amaral LM, Cunningham MW Jr, Faulkner JL, Wallace K. Identifying Immune Mechanisms Mediating the Hypertension During Preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2016 Jul 1;311(1):R1-9. Review. PMID: 27097659; PMCID: PMC4967235.
85. Patil CN, Wallace K, **LaMarca BD**, Moulana M, Lopez-Ruiz A, Soljancic A, Juncos LA, Grande JP, Reckelhoff JF. Low-dose testosterone protects against renal ischemia-reperfusion injury by increasing renal IL-10-to-TNF- α ratio and attenuating T-cell infiltration. *Am J Physiol Renal Physiol*. 2016 Aug 1;311(2):F395-403. PMID:27252490, PMCID: PMC5008676.
86. Santiago-Font JA., Amaral LM, Faulkner J, Ibrahim T, Vaka VR, Cunningham MW, **LaMarca B**. Serelaxin improves the pathophysiology of placental ischemia in the Reduced Uterine Perfusion Pressure (RUPP) rat model of Preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2016; Dec 1; 311 (6): R1158-R1163. PMID: 27629886; PMCID: PMC5256981.
87. Cunningham MW Jr., Williams JM, Amaral L, Usry N, Wallukat G, Dechend R, **LaMarca B**. Agonistic Autoantibodies to the Angiotensin II Type 1 Receptor Enhance ANG II Induced Renal Vascular Sensitivity and Reduce Renal Function during Pregnancy. *Hypertension* 2016 Nov;68(5):1308-1313. PMID: 27698062; PMCID: PMC5142826.
88. Cornelius DC, Amaral LM, Wallace K, Campbell N, Thomas AJ, Scott J, Herse F, Wallukat G, Dechend R, **LaMarca B**. Reduced uterine perfusion pressure T-helper 17 cells cause pathophysiology associated with preeclampsia during pregnancy. *Am J Physiol Regul Integr Comp Physiol*. 2016 Dec 1;311 (6): 1192- 1199. PMID:27784685, PMCID: PMC5256975.
89. Faulkner JL, Amaral LM, Cornelius DC, Cunningham MW Jr, Ibrahim T, Heep A, Campbell N, Usry N, Wallace K, Herse F, Dechend R, **LaMarca BD**. Vitamin D supplementation reduces some AT1-AA induced downstream targets implicated in preeclampsia including hypertension. *Am J Physiol Regul Integr Comp Physiol*. 2017 Jan 1;312(1):R125-R131. PMID: 27903510; PMCID: PMC5283941.
90. Ibrahim T, Przybyl L, Harmon AC, Amaral LM, Faulkner JL, Cornelius DC, Cunningham MW, Hünig T, Herse F, Wallukat G, Dechend R, **LaMarca B**. Proliferation of endogenous regulatory T cells improve the pathophysiology associated with placental ischaemia of pregnancy. *Am J Reprod Immunol*. 2017 Nov;78(5). PMID: 28681467; PMCID: PMC5916789.
91. Amaral LM, Wallace K, Owens M, **LaMarca B**. Pathophysiology and Current Clinical Management of Preeclampsia. *Curr Hypertens Rep*. 2017 Aug;19(8):61. Review. PMID: 28689331; PMCID: PMC5916784.
92. Faulkner JL, Plenty NL, Wallace K, Amaral LM, Cunningham MW, Murphy S, **LaMarca B**. Selective inhibition of 20-hydroxyeicosatetraenoic acid lowers blood pressure in a rat model of preeclampsia. *Prostaglandins Other Lipid Mediat*. 2018 Jan;134:108-113. PMID: 28951260; PMCID: PMC5902033.
93. Elfarra J, Amaral LM, McCalmon M, Scott JD, Cunningham MW Jr, Gnam A, Ibrahim T, **LaMarca B**, Cornelius DC. Natural Killer Cells Mediate Pathophysiology in Response to Reduced Uterine Perfusion Pressure. *Clin Sci (Lond)*. 2017 Nov 23;131(23):2753-2762. PMID: 29042488; PMCID: PMC5864106.
94. Amaral LM., Faulkner JL, Elfarra J, Cornelius DC., Cunningham MW, Ibrahim T., Vaka VR, McKenzie J, **LaMarca B**. Continued Investigation Into 17-OHPC: Results From the Preclinical RUPP Rat Model of Preeclampsia. *Hypertension*. 2017 Dec; 70(6):1250-1255. PMID: 29084881; PMCID: PMC5901972.
95. Plenty NL, Faulkner JL, Cotton J, Spencer SK, Wallace K, **LaMarca B**, Murphy SR. Arachidonic acid metabolites of CYP4A and CYP4F are altered in women with preeclampsia. *Prostaglandins Other Lipid Mediat*. 2018 Jan;134:108-113. PMID: 28951260; PMCID: PMC5902033.
96. Cunningham MW Jr, Castillo J, Ibrahim T, Cornelius DC, Campbell N, Amaral L, Vaka VR, Usry N, Williams JM, **LaMarca B**. AT1-AA (Angiotensin II Type 1 Receptor Agonistic Autoantibody) Blockade

- Prevents Preeclamptic Symptoms in Placental Ischemic Rats. *Hypertension*. 2018 May;71(5):886-893. PMID: 29555668; PMCID: PMC5903585.
97. Shields C, McCalmon M, Ibrahim T, White D, Williams J, **LaMarca B**, and Cornelius D. Placental Ischemia-stimulated T-helper 17 cells Induce Preeclampsia-Associated Cytolytic Natural Killer cells during Pregnancy. *Am J Physiol Regul Integr Comp Physiol*. 2018 Aug 1;315(2):R336-R343. PMID: 29718698; PMCID: PMC6139611.
 98. Vaka V R, McMaster KM., Cunningham M W., Ibrahim T, Hazlewood R, Usry N, Cornelius D, Amaral LM., **LaMarca B**. The role of placental ischemia induced mitochondrial dysfunction and ROS in mediating hypertension in a rat model of preeclampsia. *Hypertension*. 2018 Sep;72(3):703-711. PMID:30012871; PMCID:PMC6394841.
 99. Cunningham MW Jr, **LaMarca B** Risk of cardiovascular disease, end-stage renal disease, and stroke in postpartum women and their fetuses after a hypertensive pregnancy. *Am J Physiol Regul Integr Comp Physiol*. 2018 Sep 1;315(3):R521-R528. Review. PMID: 29897824; PMCID: PMC6172627.
 100. Cornelius DC, Cottrell J, Amaral LM, **LaMarca B**. Inflammatory Mediators: A causal link to hypertension during pregnancy- Studies in Preeclampsia. *Br J Pharmacol*. 2018 Jun;176(12):1914-1921. Review. PMID: 30095157; PMCID:6534812.
 101. Campbell N, **LaMarca B**, Cunningham Jr MW The role of Agonistic Autoantibodies to the Angiotensin II Type 1 Receptor (AT1-AA) in Pathophysiology of Preeclampsia *Curr Pharm Biotechnol*. 2018;19(10):781-785. Review. PMID: 30255752; PMCID: PMC6596412.
 102. Wallace K, Chatman K, Johnson V, Brookins A, Rushing J, **LaMarca B**. Novel treatment avenues for uterine leiomyoma: a new implication for endothelin? *Clin Sci (Lond)*. 2018 Oct 29;132(20):2261-2267. PMID:30301761; PMCID: PMC6614866.
 103. Harmon AC, Ibrahim T, Cornelius DC, Amaral LM., Cunningham MW.Jr.,¹Wallace K, **LaMarca B**. Placental CD4+ T Cells Isolated from Preeclamptic Women Cause Preeclampsia-Like Symptoms in Pregnant Nude-Athymic Rats. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*. 2019 Jan;15:7-11. PMID:30825930; PMCID: PMC6613642.
 104. Cunningham M W., Vaka V R, McMaster K, Ibrahim T, Cornelius D C., Amaral L, Campbell N, Wallukat G, McDuffy S, Usry N, Dechend R and **LaMarca B**. Renal Natural Killer Cell Activation and Mitochondrial Oxidative Stress; new mechanisms in AT1-AA mediated Hypertensive Pregnancy. *Pregnancy Hypertens*. 2019 Jan;15:72-77. PMID:30825931; PMCID: PMC6596414.
 105. Cottrell JN, Amaral LM, Harmon A, Cornelius DC, Cunningham MW Jr, Vaka VR, Ibrahim T, Herse F, Wallukat G, Dechend R, **LaMarca B**. Interleukin-4 supplementation improves the pathophysiology of hypertension in response to placental ischemia in RUPP rats. *Am J Physiol Regul Integr Comp Physiol*. 2019 Feb 1;316(2):R165-R171. PMID: 30624978; PMCID: PMC6397356. APSELECT prize
 106. Vaka VR, McMasters KM, Cornelius DC, Ibrahim T, Jayaram A, Usry N, Cunningham MW Jr, Amaral LM, **LaMarca BD**. Natural Killer cells contribute to mitochondrial dysfunction in response to placental ischemia in Reduced Uterine Perfusion Pressure (RUPP) rats. *Am J Physiol Regul Integr Comp Physiol*. 2019 May 1;316(5):R441-R447. PMID: 30811248; PMCID: PMC6589603.
 107. Reckelhoff JF, **LaMarca B**, Garovic VD, Alexander BT. Human Umbilical Venous Endothelial Cells: Early Predictors of Cardiovascular Risk in Offspring? *Hypertension*. 2019 Jul;74(1):32-34. PMID: 31154902; PMCID: PMC6782069.
 108. Warrington JP, Fan F, Duncan J, Cunningham MW, **LaMarca BB**, Dechend R, Wallukat G, Roman RJ, Drummond HA, Granger JP, Ryan MJ. The angiotensin II type I receptor contributes to impaired cerebral blood flow autoregulation caused by placental ischemia in pregnant rats. *Biol Sex Differ*. 2019 Dec 11;10(1):58. PMID: 31829239; PMCID: PMC6907203
 109. Elfarra JT, Cottrell JN, Cornelius DC, Cunningham MW Jr, Faulkner JL, Ibrahim T, **LaMarca B**, Amaral LM. 17-Hydroxyprogesterone caproate improves T cells and NK cells in response to placental ischemia; new mechanisms of action for an old drug. *Pregnancy Hypertens*. 2020 Jan;19:226-232. PMID: 31806502; PMCID: PMC7152948
 110. Vaka VR, Cunningham MW Jr, Deer E, Franks M, Ibrahim T, Amaral LM, Usry N, Cornelius DC, Dechend R, Wallukat G, **LaMarca BD**. Blockade of endogenous Angiotensin II type I receptor agonistic autoantibody activity improves mitochondria reactive oxygen species and hypertension in a rat model of Preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2020 Feb 1;318(2):R256-R262. PMID: 31721604; PMCID: PMC7052605

111. **LaMarca B.** Letter to the Editor: Importance of B cells in response to placental ischemia. *Am J Physiol Heart Circ Physiol.* 2020 Mar 1;318(3):H723-H725. PMID: 32141769; PMCID: PMC7276922
112. Haase N, Foster DJ, Cunningham MW, Bercher J, Nguyen T, Shulga-Morskaya S, Milstein S, Shaikh S, Rollins J, Golic M, Herse F, Kraker K, Bendix I, Serdar M, Napieczynska H, Heuser A, Gellhaus A, Thiele K, Wallukat B, Muller DN, **LaMarca B**, Dechend R. RNA interference therapeutics targeting angiotensinogen ameliorate preeclamptic phenotype in rodent models. *J Clin Invest.* 2020 Jun 1;130(6):2928-2942. PMID: 32338644; PMCID: PMC7260005
113. Cunningham MW., Jayaram A, Deer E, Amaral L M., Vaka VR, Ibrahim T, Cornelius D C. & **LaMarca B.** Tumor necrosis factor alpha (TNF- α) blockade improves natural killer cell (NK) activation, hypertension, and mitochondrial oxidative stress in a preclinical rat model of preeclampsia. *Hypertension in Pregnancy.* 2020; Nov;39(4):399-404. PMID: 32646252; PMCID: PMC7669709
114. Amaral L M., Cottrell J N, Comley K M, Cunningham Jr MW., Witcher A, Vaka VR, Ibrahim T, **LaMarca B.** 17-Hydroxyprogesterone caproate improves hypertension and endothelin-1 in response to sFlt-1 induced hypertension in pregnant rats. *Preg Hyp*, 2020 Oct;22:151-155. PMID: 32980622; *PMCID in progress*
115. Deer E, Vaka V. R, McMaster KM., Wallace K, Cornelius D, Amaral LM, Cunningham Jr, MW, **LaMarca B.** Vascular Endothelial Mitochondrial Oxidative Stress in response to Preeclampsia; A role for AT1-AAAs. 2020. *AJOG: MFM.* Available online 27 October 2020. *PMCID in progress*
116. Duncan J W., Azubuikwe D, Booz GW., Fischer B, Williams J, Bidwell GL., Fan F, Wallace K, Ibrahim T, **LaMarca B**, and Cunningham Jr. MW. Angiotensin II Type 1 Receptor Autoantibody Blockade Improves Cerebral Blood Flow Autoregulation and Hypertension in a Preclinical Model of Preeclampsia. *Hypertens Pregnancy.* 2020 Nov;39(4):451-460. PMID: 33119997; *PMCID in progress*
117. Deer E, Reeve KE, Amaral LM, Vaka VR, Franks M, Campbell N, Fitzgerald S, Herrocks OT, Ibrahim T, Cornelius DC, **LaMarca B.** CD4⁺ T Cells cause Renal & Placental Mitochondrial Oxidative Stress as mechanisms of hypertension in response to placental ischemia. *Am J Physiol Renal Physiol.* 2020 Nov 16. PMID: 33196321; *PMCID in progress*
118. Bakrania BA, Spradley FT, Drummond HA, **LaMarca B**, Ryan MJ, Granger JP. Preeclampsia: Linking Placental Ischemia with Maternal Endothelial and Vascular Dysfunction. *Compr Physiol.* 2020 Dec 9;11(1):1315-1349. doi: 10.1002/cphy.c200008.
119. Cunningham, MW., JR, Amaral, LM, Campbell, NE, Cornelius, DC, Ibrahim, T., Vaka, VR., **LaMarca, B.** Investigation of Interleukin-2 mediated changes in blood pressure, fetal growth restriction, and innate immune activation in normal pregnant rats and in a Preclinical Rat Model of Preeclampsia. *Biol Sex Differ* 2021 Jan 6;12(1):4.
120. Jayaram A, Deer E, Amaral L M., Campbell, N., Vaka VR, Cunningham MW., Ibrahim T, Cornelius D C. & **LaMarca B.** The role of Tumor Necrosis Factor in triggering activation of natural killer cell, multi-organ mitochondrial dysfunction and hypertension during pregnancy. *Preg.Hyperten.* 2021. *in press.*
121. Cottrell JN, Witcher AC, Comley K, Cunningham MW Jr, Ibrahim T, Cornelius DC, **LaMarca B**, Amaral LM. Progesterone-induced blocking factor improves blood pressure, inflammation, and pup weight in response to reduced uterine perfusion pressure (RUPP). *Am J Physiol Regul Integr Comp Physiol.* 2021 May 1;320(5):R719-R727. doi: 10.1152/ajpregu.00152.2020. Epub 2021 Feb 3.

122.

BOOKS EDITED

B LaMarca and B Alexander. 2019. *Sex Differences in Cardiovascular Physiology and Pathophysiology.* 2019; Elsevier publishing, San Diego CA.

BOOK CHAPTERS

1. Ralf Dechend, **Babbette Lamarca**, and Robert N. Taylor. (2021) The Renin-Angiotensin System, its Autoantibodies, and Body Fluid Volume in Preeclampsia. *CHESLEY'S HYPERTENSIVE DISORDERS IN PREGNANCY* 4th ed. p315-334. Elsevier. San Francisco CA.
2. Ralf Dechend, **Babbette Lamarca**, and Robert N. Taylor. (2015) The Renin-Angiotensin System, its Autoantibodies, and Body Fluid Volume in Preeclampsia. *CHESLEY'S HYPERTENSIVE DISORDERS IN PREGNANCY* 4th ed. p315-334. Elsevier. San Francisco CA.
3. **Babbette LaMarca** (2015) The Pathogenesis of HELLP Syndrome: Similarities and Differences with

Abstracts

1. **LaMarca BB**, Arceneaux JEL, Byers BR, Lundrigan MD. 1999. Exochelin-Mycobactin Siderophore Mutants of *Mycobacterium smegmatis* Annual Meeting of the South Central Branch, American Society of Microbiologists, New Orleans, Louisiana
2. **LaMarca BB**, Arceneaux JEL, Byers BR, Lundrigan MD. 2000. Siderophore Knockout Strains of *Mycobacterium smegmatis*. American Society of Microbiologist, 100th General Meeting, Los Angeles, California.
3. **LaMarca BB**, Arceneaux JEL, Byers BR, Lundrigan MD. 2001. Characterization of Siderophore Knockout Strains in *Mycobacterium smegmatis*. American Society of Microbiologists 101st General Meeting, Orlando Florida.
4. **LaMarca BB**, Arceneaux JEL, Byers BR, Lundrigan MD. 2001. Functional Characterization of Siderophore Synthesis in *Mycobacterium smegmatis*. Annual Meeting of the South Central Branch, American Society of Microbiologists, Baton Rouge, Louisiana.
5. **LaMarca BB**, Gu JW, Sullivan E, Granger JP. 2003. TNF-alpha-induced endothelin production in HUVEC: influence of estrogen and progesterone. Council for High Blood Pressure Research in association with Council on Kidney in Cardiovascular Disease, Washington DC
6. **LaMarca BB**, Gu JW, Sullivan E, Granger JP. 2003. Modulation of Tumor Necrosis Factor alpha induced endothelin production by estrogen and progesterone. Understanding Renal and Cardiovascular Function through Physiological Genomics, APS Conference, Augusta, Georgia.
7. **LaMarca BB**, Gadonski G, Cockrell K, Sullivan E, Granger JP. Endothelin type A receptor blockade attenuates TNF alpha-induced hypertension in pregnant rats. American Physiological Society, 2003, Washington D.C.
8. **LaMarca BB**, Cockrell K, Sullivan E, Granger JP. 2004 Role of endothelin-1 in mediating TNF-alpha-induced Hypertension in Pregnant Rats. Experimental Biology. Washington, D.C.
9. **LaMarca BB**, Chandler D, Cockrell K, Bennett W, Granger JP. Hypertension produced by chronic reductions in uterine perfusion in the pregnant rat: role of TNF alpha. IASH, 2005, Cancun, Mexico.
10. **LaMarca BB**, Grubbs L, Cockrell K, Bain J, Granger JP. Role of estrogen and progesterone in modulating tumor necrosis factor alpha-induced increases in blood pressure in pregnant rats. *Hypertension* 2005 46: 883
11. Llinas M, Wallukat G, Dechend R, Mueller DN, Luft FC, Alexander BT, **LaMarca BB**, Granger JP. Agonistic Autoantibodies to the At1 Receptor in a Rat Model of Preeclampsia Induced by Chronic Reductions in Uterine Perfusion Pressure (RUPP) *Hypertension* 2005 46: 883
12. Gutkowska J, Granger JP, **Lamarca BB**, Coderre L, Pelletier A, Gangal M, Jankowski M. Cardiac Hypertrophy and Cardiac Insulin Responsive Amino-Peptidase (IRAP) in the Reduced Uterine Perfusion (RUPP) Model of Preeclampsia. *Hypertension* 2005 46: 841
13. Ryan MJ, McLemore Jr. GR, Cockrell KL, **LaMarca BB**, Granger JP. TNF-alpha Mediated Changes in Vascular Reactivity are Attenuated by Progesterone and Estrogen in Ovariectomized Rats. *Hypertension* 2005 46: 841
14. Dechend R., M. Llinas, S. Caluwaerts,; F. Herse, , **B. Lamarca**,; Muller DN, Pijnenborg R, Wallukat G, Granger JP. Agonistic Autoantibodies to the AT1 Receptor in Rat Models of Preeclampsia: Induced by Chronic Reductions in Uterine Perfusion Pressure (RUPP) and Low Dose TNFalpha Infusion. Granger. *Hypertension* 48:(4); e35, 2006
15. **LaMarca BB**, Speed J, Fournier L, Cockrell K, Granger JP. Hypertension in response to chronic reductions in uterine perfusion in pregnant rats: Effect of IL-6 blockade. Experimental Biology, San Fransisco, CA 2006.
16. Costa P, **LaMarca BB**, Fournier L, Bisinella F, Gadonski G, Figueiredo CP, Granger JP. Maternal Plasma and Placental Cytokine Profile in Preeclampsia. *Journal of Clinical Hypertension* 8(5): A67, 2006
17. **LaMarca BB**, Speed J, Fournier L, Cockrell K, Chandler D, Granger JP. Angiotensin II Type I receptor blockade prevents interleukin (IL-6)-induced hypertension in the pregnant rat. *Hypertension* 48:(4); e47, 2006

18. **LaMarca BB**, Costa BEP, Fournier L, Hoffmann K, Gadonski G, Figueiredo CEP, Granger JP. Maternal plasma and placental cytokine profile in hypertensive preeclamptic women. Council for High Blood Pressure Research, San Antonio TX, 2006.
19. **LaMarca BB**, Speed J, Fournier L, Cockrell K, Chandler D, Granger JP. The Role Angiotensin II Type I receptor activation in mediating TNF alpha-induced hypertension in the pregnant rat. Experimental Biology, Washington DC, 2007
20. **LaMarca BB**, Dechend R, Wallukat G, Llinas M. Elevated agonistic autoantibodies to the angiotensin type 1 (AT1-AA) receptor in response to placental ischemia and TNF alpha in pregnant rats. Sex and Gender in Cardiovascular-Renal Physiology and Pathophysiology, Austin TX, 2007
21. **LaMarca BB**, Speed J, Fournier L, Babcock S, Berry H, Cockrell K, Granger JP. Hypertension in response to chronic reductions in uterine perfusion in pregnant rats: Effect of TNF alpha blockade. Council for High Blood Pressure Research, Tucson AZ, 2007
22. Roberts L, Dukes M, Dechend R, Wallukat G, **LaMarca BB**. Agonistic autoantibodies to the angiotensin II type 1 receptor increase endothelial cell sensitivity to angiotensin II. Council for High Blood Pressure Research, Tucson AZ, 2007
23. Roberts L, Dukes M, Fournier L, Dechend R, Wallukat G, **LaMarca BB**. Agonistic autoantibodies to the angiotensin II type 1 receptor increases Angiotensin II-induced ET-1 production. Experimental Biology, San Diego CA, 2008.
24. **LaMarca BB**, Roberts L, Dukes M, Murphy SR, Fournier L, Speed J, Cockrell K, Granger JP. Endothelial cell activation in response to placental ischemia in pregnant rats is mediated by agonistic autoantibodies to the angiotensin type I receptor. Experimental Biology, San Diego CA, 2008.
25. Dukes M, Roberts L, **LaMarca BB**, Gilbert JS, Granger JP. The ischemic placenta of pregnant rats elaborates factors that inhibit endothelial tube formation. Experimental Biology, San Diego, CA, 2008
26. Murphy SR, **LaMarca BB**, Cockrell K, Gilbert J, Granger JP. Soluble fms-like tyrosine-1 (sFlt-1) in response to placental ischemia and hypoxia in the placenta of pregnant rats. Experimental Biology, San Diego, CA, 2008
27. **LaMarca, BB**, Dechend, Lillian Fournier, Sydney R. Murphy, Kathy Cockrell. Chronic elevations in agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA) during pregnancy in rats increase arterial pressure and endothelin-1. Council for High Blood Pressure Research, Atlanta, GA 2008
28. Sydney R. Murphy, **Babbette LaMarca**, Kathy Cockrell, Joey P. Granger Placental Angiotensin II and soluble fms-like tyrosine-1 (sFlt-1) production increase in response to reductions in uterine perfusion pressure. Council for High Blood Pressure Research, Atlanta, GA 2008.
29. Marc Parrish, Sydney R. Murphy, Ralf Dechend, Sharon Keiser, Edward Veillon, Kathy Cockrell, Lillian Fournier, James N. Martin Jr., **LaMarca BB**. Hypertension in response to agonistic autoantibodies to the angiotensin II type I receptor is associated with elevated circulating sFlt-1. Society of Maternal Fetal Medicine, San Diego CA 2009
30. Edward W. Veillon, Sharon D. Keiser, William Bennett, Kathy Cockrell, Lillian Fournier, Joey P. Granger, James N Martin Jr, **LaMarca BB**. 17 OHP blunts the hypertensive response associated with Reductions in Uterine Perfusion Pressure in pregnant rats. Society of Maternal Fetal Medicine, San Diego CA 2009
31. Sharon D. Keiser, Edward W. Veillon, William Bennett, Kathy Cockrell, Lillian Fournier, Joey P. Granger, James N. Martin Jr, **LaMarca BB**. Administration of 17Hydroxyprogesterone attenuates Tumor Necrosis Factor alpha-induced hypertension during pregnancy Society of Maternal Fetal Medicine, San Diego CA 2009
32. Marcia Venegas-Pont, Porter H. Glover, **LaMarca BB**, Allison V. Jones, Michael J. Ryan. .A Role For TNF- α in Hypertension During Systemic Lupus Erythematosus Experimental Biology, New Orleans LA 2009.
33. Kiran Tam Tam, **LaMarca BB**, Sydney Murphey, Marrietta Arany, Nicole M. Lee, Lillian Fournier, Kathy Cockrell, Joey P. Granger. Hypertension in response to chronic sFlt-1 excess during pregnancy: role of reactive oxygen species. Experimental Biology, New Orleans LA 2009.
34. Joshua Speed, Lillian Fournier, Kathy Cockrell, Ralf Dechend, Joey Granger, **LaMarca B.B**. IL-6 induced hypertension in pregnant rats is associated with agonistic autoantibodies to the angiotensin II type I receptor. Experimental Biology, New Orleans LA 2009.

35. Sydney R. Murphy, **LaMarca BB**, Joshua Speed, Sharon Keiser, Kathy Cockrell, Joey P. Granger. Soluble fms-like tyrosine-1 (sFlt-1) is enhanced in response to chronic tumor necrosis factor- α (TNF- α) excess during pregnancy. Experimental Biology, New Orleans LA 2009.
36. **LaMarca BB**, Porter Glover, Marc Parrish, Lillian Fournier-Ray, Ralf Dechend, and Michael J Ryan AT1-AA induced hypertension during pregnancy is associated with renal endothelial dysfunction and endothelin (ET-1) type A receptor activation. Experimental Biology, New Orleans LA 2009.
37. Marc R. Parrish, Sydney R. Murphy, Sharon Keiser, Lillian Fournier Ray, James N. Martin, **LaMarca BB**. Soluble fms-like tyrosine-1 (sFlt-1) production is enhanced in response to Tumor Necrosis Factor- α (TNF- α) induced hypertension during pregnancy. Central Association of Obstetrics and Gynecology, Hawaii 2009
38. Kiran Tam Tam, Sydney Murphy, Marrietta Arany, James N. Martin, Jr., **LaMarca BB**, Joey P. Granger ROLE OF REACTIVE OXYGEN SPECIES DURING HYPERTENSION IN RESPONSE TO CHRONIC SFLT-1 EXCESS IN PREGNANT RATS Central Association of Obstetrics and Gynecology, Hawaii 2009
39. Sydney R. Murphy, **LaMarca BB**, Kathy Cockrell, Joey P. Granger. Hypertension in response to soluble fms-like tyrosine kinase-1 (sFlt-1) during pregnancy: role of endothelin-1. Council for High Blood Pressure Research. September 23-25, 2009 Chicago Illinois.
40. **LaMarca BB**, Parrish MR, Ray LF, Arany M, Cockrell K, Dechend R. Hypertension and enhanced reactive oxygen species production in response to chronic elevations in agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA) in pregnant rats. Presented to the Council for High Blood Pressure Research, September 23-25, 2009 Chicago, Illinois.
41. **LaMarca BB**, Murphy SR, Parrish MR, Fournier L, Cockrell K, Dechend R. Hypertension in response to agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA) is associated with increased sFlt-1 and sEndoglin in pregnant rats. Presented to the Council for High Blood Pressure Research, September 23-25, 2009 Chicago, Illinois.
42. Parrish M, Fournier L, Arany M, Weimer A, Cockrell K, Dechend R, Martin JN Jr, **LaMarca BB**. Hypertension in response to agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA): role of reactive oxygen species (ROS). Abstract presented at the 30th Annual Meeting of SMFM, Feb 3-6, 2010, Chicago, IL.
43. Tam Tam KB, Wallace K, Mott K, Weimer A, Martin JN Jr, **LaMarca BB**. Placental ischemia triggers immune activation as leukocyte overproduction of sFlt-1: a step in the pathogenesis of preeclampsia? Abstract presented as oral presentation to the 30th Annual Meeting of SMFM, Feb 3-6, 2010, Chicago, IL.
44. Parrish MR, Brewer J, Murphy S, Ray L, Dechend R, Martin JN Jr, **LaMarca BB**. AT1-AA Induced hypertension during pregnancy is associated with renal endothelial dysfunction. (accepted for oral at CAOG 2010, Las Vegas, NV)
45. Richards S, Wallace K, Weimer A, Dhillon P, Wallukat G, Wenzel K, Martin JN Jr, Dechend R, **LaMarca BB**. Hypertension in response to placental ischemia in pregnant rats is a stimulus for the production of agonistic autoantibodies to the angiotensin type 1 receptor in association with CD4+ T helper cell activation. (Accepted for oral at CAOG 2010, Las Vegas, NV)
46. Pushpinder D, Wallace K, Weimer A, Richards S, Martin J N Jr, and **LaMarca BB**. Hypertension in Response to Placental Ischemia is Associated with Increased Interleukin 17: Involved in the Pathogenesis of Preeclampsia? (Accepted for oral at CAOG 2010, Las Vegas, NV)
47. **LaMarca BB**, Kedra Wallace, Florian Herse, Gerd Wallukat, Abram Weimer, Ralf Dechend Hypertension in response to placental ischemia during pregnancy: Role of agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA). Council for High Blood Pressure Research. Oct 13-16 2010, Washington DC
48. Kedra Wallace, Sarah Richards, Abram Weimer, James N Martin Jr, **LaMarca BB**. CD4+ T helper cells stimulated in response to placental ischemia mediate hypertension in pregnant rats. Council for High Blood Pressure Research. Oct 13-16 2010, Washington DC
49. Kiran B. Tam Tam, Eric George, Kathy Cockrell, Marietta Arany, Joshua Speed, James N Martin Jr., **LaMarca BB**, Joey P. Granger. Endothelin type A receptor antagonist attenuates uterine hypoxia-induced hypertension and uterine vascular resistance. Society for Maternal-Fetal Medicine, Feb 7-11, 2011 San Francisco CA. *Am J Ob Gyn. (gray journal)* 2011. 204, s12

50. Justin Brewer, Kedra Wallace, Lyndsay Roberts, Lillian Ray, James N Martin Jr., Gerd Wallukat², Ralf Dechend² and **LaMarca BB** AT1-AA increases AngII-induced ET-1 and ROS. Society for Maternal-Fetal Medicine, Feb 7-11, 2011 San Francisco CA. *Am J Ob Gyn.(gray journal)* 2011. 204, s300
51. Pushpinder Dhillon, Kedra Wallace, Sarah Richards, Abram Weimer, James N Martin Jr and **LaMarca BB**. Interleukin 17 increases blood pressure during pregnancy: a link between autoimmunity and preeclampsia? Society for Maternal-Fetal Medicine, Feb 7-11, 2011 San Francisco CA. *Am J Ob Gyn.(gray journal)* 2011. 204, s308.
52. Sarah Richards, Kedra Wallace, Abram Weimer, Pushpinder Dhillon, Gerd Wallukat, Katrin Wenzel, James N Martin Jr, Ralf Dechend, **LaMarca BB**. T Lymphocyte induced AT1-AAs cause hypertension in response to placental ischemia. Society for Maternal-Fetal Medicine, Feb 7-11, 2011 San Francisco CA. *Am J Ob Gyn.(gray journal)* 2011. 204, s100.
53. Kedra Wallace, Florian Herse, Gerd Wallukat, Abram Weimer, Ralf Dechend **LaMarca BB Babbette LaMarca**. Agonistic autoantibodies to the angiotensin II type I receptor (AT1-AA) mediate endothelial dysfunction associated with hypertension in response to placental ischemia during pregnancy Society for Maternal-Fetal Medicine, Feb 7-11, 2011 San Francisco CA. *Am J Ob Gyn.(gray journal)* 2011. 204, s300.
54. **LaMarca BB**, Justin Brewer, Kedra Wallace, Florian Herse, Janae Moseley, Ralf Dechend Increased blood pressure sensitivity to angiotensin II in pregnant rats pretreated with agonistic autoantibodies to the angiotensin II type I receptor. Experimental Biology. April 9-13 2011. Washington DC.
55. Kedra Wallace, Pushpinder Dhillon, Sarah Richards, Abram Weimer, James N Martin Jr and **LaMarca BB** Interleukin 17 increases blood pressure during pregnancy: a link between autoimmunity and preeclampsia? Experimental Biology. April 9-13 2011. Washington DC.
56. Kedra Wallace, Sarah Richards, Abram Weimer, Pushpinder Dhillon, Gerd Wallukat, Katrin Wenzel, James N Martin Jr, Ralf Dechend, **LaMarca BB** Adoptive transfer of placental ischemia induced CD4+T Lymphocyte stimulate AT1-AAs and cause hypertension during pregnancy. Experimental Biology. April 9-13 2011. Washington DC.
57. Kedra Wallace, Evan Turnage, Lillian Ray, Bryan Cowan, **Babbette LaMarca**. Hypertension and Endothelin-1 are associated with uterine leiomyoma proliferation. Society for Gynecological Investigations, *Reproductive Sciences*. 2011:18(4):S98A.
58. **LaMarca BB**, Justin Brewer, Kedra Wallace, Florian Herse³, Janae Moseley, Ralf Dechend³ Gerd Wallukat³ Ruisheng Liu² Agonistic autoantibodies to the angiotensin II type I receptor enhance blood pressure and renal vascular sensitivity to angiotensin II in pregnant rats. Council High Blood Pressure Research. Sept 17-24, 2011 Orlando, Fl. *Hypertension* 58: e .
59. Kedra Wallace, Sarah Richards Novotny, Judith Heath, Janae Moseley, James N. Martin Jr., **LaMarca BB**. Hypertension in response to CD4+ T cells from RUPP rats is associated with activation of the endothelin-1 system. Council High Blood Pressure Research. Sept 17-24, 2011 Orlando, Fl. *Hypertension*. 58: e
60. Justin Brewer, James N. Martin Jr., Ashley Canizaro, Pamela Blake, Marie Darby, Rachael Morris, Michelle Owens, **LaMarca BB**, Imran Sunesara. HELLP Syndrome(s) and severe preeclampsia differentiation according to maternal outcomes: class 1 HELLP syndrome trumps all others. Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S341.
61. Luissa Fisteag-Kiprono, Kedra Wallace, Sharon Keiser, Edward Veillion· Janae Moseley, Judith Heath, James Martin Jr., **LaMarca BB**. Progesterone, 17-alpha Hydroxyprogesterone Caproate, Suppress Endothelin-1 and Hypertension in Response to Placental Ischemia Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S347.
62. Sarah Novotny, Kedra Wallace, Pushpinder Dhillon, Janae Moseley, Judith Heath, James N Martin Jr, **LaMarca BB**. Blockade of CD4+ T cells prior to placental insult, attenuates hypertension in response to placental ischemia. Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. s112.
63. Justin Brewer, Ruisheng Liu, Kedra Wallace, Florian Herse, Janae Moseley, Ralf Dechend, Gerd Wallukat, **LaMarca BB**. AT1-AA enhances renal sensitivity and blood pressure in response to ANGII during pregnancy. Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S342.

64. Pushpinder Dhillon, Jeremy Scott, Kedra Wallace, Judith Heath, Janae Moseley, James N Martin, and **LaMarca BB**. Placental oxidative stress is an important mediator of IL-17 induced hypertension during pregnancy. Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S349.
65. Justin Brewer, James Martin, Amanda Armstrong, Pamela Blake, Rachael Morris, Michelle Owens, **Babbette LaMarca.**, Posterior reversible encephalopathy syndrome (PRES) associated with eclampsia: the variable effects of therapeutic agents to accelerate safe recovery. Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S341.
66. Justin Brewer, James Martin, Amanda Armstrong, Pamela Blake, Rachael Morris, Michelle Owens, **Babbette LaMarca.**, Eclampsia and posterior reversible encephalopathy syndrome (PRES): cause or effect or both in 47 patients? Society for Maternal-Fetal Medicine, 2012, Dallas Tx. *Am J Ob Gyn.(gray journal)* 2012. S342
67. Kedra Wallace, Justin Porter, Evan Turnage, Krystal Frazier, Venessia Johnson, Babbette LaMarca Hypoxia stimulates Endothelin-1 Secretion from Human Myometrium Explants; a potential link between hypertension and development of uterine leiomyomas. 2012 San Diego CA., Society of Gynecological Investigations.
68. Pushpinder Dhillon, Jeremy Scott, Kedra Wallace, Judith Heath, Janae Moseley, James N Martin, and **Babbette LaMarca**. IL-17 mediated oxidative stress is an important stimulator of AT1-AA and hypertension during pregnancy. 2012 San Diego CA., Society of Gynecological Investigations.
69. Sarah Novotny, Kedra Wallace, Pushpinder Dhillon, Janae Moseley, Judith Heath, James N Martin Jr, and **Babbette LaMarca**. Blockade of CD4+ T Cells Prior to Placental Insult, Attenuates Hypertension and Placental sFlt-1 in Response to Placental Ischemia. 2012 San Diego CA., Society of Gynecological Investigations.
70. **Babbette LaMarca**, Sarah Richards Novotny, Kedra Wallace, Janae Moseley, Marie Darby, Judith Heath, James N Martin Jr. CD4+ T cells play a critical role in mediating hypertension in response to placental ischemia Council High Blood Pressure Research. Sept 21-23, 2012 Washington DC. *Hypertension 58: e*.
71. Kedra Wallace, Marie Darby, Janae Moseley, **Babbette LaMarca**. CD4+ T helper cell infiltration in the AV3V region and frontal cortex is associated with hypertension in response to placental ischemia in pregnant rats. Society for Neuroscience Annual Meeting 2012.
72. Kedra Wallace, Jeremy Scott, Sarah Novotny, Judith Heath, Janae Moseley, **Babbette LaMarca**. Placental ischemic stimulated CD4+ T helper cells increase blood pressure and placental and renal oxidative stress during pregnancy. *FASEB Journal*. 2012:26.879.7
73. Kedra Wallace, Justin Porter, Evan Turnage, Krystal Frazier, Venessia Johnson, **Babbette LaMarca**. Hypoxia stimulates endothelin-1 secretion from human myometrium explants; A potential link between hypertension and development of uterine leiomyomas. Society for Gynecological Investigations, *Reproductive Sciences*. 2012:19(3)162A.
74. Kedra Wallace, Marie Darby, Jeremy Scott, Janae Moseley, Michelle Y. Owens, **Babbette LaMarca** Hypertension in a rat model of HELLP syndrome is associated with T helper 1 type immune activation Council High Blood Pressure Research. Sept 21-23, 2012 Washington DC. *Hypertension 58: e*
75. Kedra Wallace, Marie Darby, Patrick Kyle, Rachael Morris, Janae Moseley, Krystal Frazier, **Babbette LaMarca**. Hypertension in a rat model of HELLP Syndrome is associated with increased TNF-alpha, IL-6 and CD4+ T cell activation. Experimental Biology; Boston, MA 2013.
76. Kedra Wallace, Rachael Morris, Janae Moseley, Stephanie Evans, **Babbette LaMarca**. Cerebral white matter CD4+ T cell infiltration is associated with hypertension in a rat model of HELLP Syndrome. Experimental Biology; Boston, MA 2013.
77. Keisa W. Mathis, Kedra Wallace, **Babbette LaMarca**, Michael J. Ryan. Humoral immune system activation promotes the development of hypertension. Experimental Biology, Boston, MA 2013.
78. Denise C Cornelius, James P Hogg, Kedra Wallace, Janae Moseley, **Babbette LaMarca**. Blunting circulating TH17 cells decreases hypertension and oxidative stress in response to placental ischemia. Experimental Biology; Boston, MA 2013.
79. Marie Darby, Kedra Wallace, Janae Moseley, Judith Heath, James N. Martin, Christine Purser, Rodney Baker, Michelle Owens, **Babbette LaMarca**. Pregnancy complicated by chronic hypertension: A state of Vitamin D Deficiency and immune activation. Society for Maternal Fetal Medicine February 2013.

80. Luissa Kiprono, Krystal Frazier, Kedra Wallace, Janae Moseley, Margaret Wester, Jeremy Scott, James Martin, **Babbette LaMarca**. More Evidence Suggestive of Preeclampsia as a State of Progesterone Deficiency: Progesterone Suppresses Hypoxia-Stimulated Production of TNF- α , IL-6, IL-17, and sFlt-1. *Society for Maternal Fetal Medicine Annual Meeting* february 2013.
81. Justin Brewer, Kedra Wallace, Florian Herse, Janae Moseley, Ralf Dechend, Gerd Wallukat, James N. Martin, Jr., **Babbette LaMarca** AT1-AA enhances ANGII induced hypertension and renal vascular sensitivity. *Society for Gynecological Investigations*, March 20-23, 2013, Orlando FL.
82. **Kedra Wallace**, Krystal Frazier, Venessia Johnson, Jeremy Scott, Babbette LaMarca. Angiotensin type 1 receptor blockade blunts *in vitro* uterine leiomyoma proliferation and Endothelin-1 secretion; linking uterine fibroids with pre-hypertension in premenopausal patients. *Society for Gynecological Investigation Annual Meeting*, March 20-23, Orlando FL 2013.
83. Marie Darby, MD, Kedra Wallace, PhD, Janae Moseley, Judith Heath, BS, James N Martin Jr, MD, Christine Purser, Rodney Baker, PhD, Michelle Owens, MD, and **Babbette LaMarca**, PhD Pregnancy Complicated by Chronic Hypertension : A State of Immune Activation. *Society for Gynecological Investigation Annual Meeting*, March 20-23, Orlando FL 2013.
84. Denise C Cornelius, , Kedra Wallace, , Janae Moseley, , and **Babbette LaMarca**, RUPP T_H17 cell cause Hypertension during Pregnancy. *Council for High Blood Pressure Research, AHA, New Orleans,LA. Sept 11-14, 2013.*
85. Lorena Amaral Machado, Denise Cornelius, Kedra Wallace, Luissa Kipprono, Janae Moseley, Florian Herse, Gerd Wallukat, James N Martin, Ralf Dechend, and **Babbette LaMarca**. Progesterone supplementation attenuates hypertension and AT1-AA in response to elevated IL-6 during pregnancy. *Council for High Blood Pressure Research, AHA, New Orleans,LA. Sept 11-14, 2013.*
86. Kedra Wallace, Rachael Morris, Krystal Chatman, Janae Moseley, **Babbette LaMarca**. Hypertension in hemolysis, elevated liver enzyme, low platelet syndrome is associated with increased Endothelin-1. *Council for High Blood Pressure Research, AHA, New Orleans,LA. Sept 11-14, 2013.*
87. Javier Castillo, Justin Porter, Lorena Machado, Denise Cornelius, Kedra Wallace, **Babbette LaMarca**. Inhibition of AT1-AAs by interrupting lymphocyte communication or by direct binding reduces blood pressure in response to placental ischemia of pregnancy; emphasizing the importance of novel drug development in the treatment of preeclampsia. *AJOG*; 2014. 210:S376. *Society for Maternal Fetal Medicine, New Orleans, LA. February 3-8,2013*
88. Marie Darby, Kedra Wallace, Krystal Frazier, Justin Porter, Janae Moseley, Judith Heath, James N. Martin, Christine Purser, Rodney Baker, Michelle Owens, **Babbette LaMarca** VITAMIN D SUPPLEMENTATION decreased blood pressure in a model of CHTN DURING PREGNANCY. *AJOG*. 2014; 210:S166. *Society for Maternal Fetal Medicine, New Orleans, LA. February 3-8,2013*
89. Ashlyn C. Harmon, Adrienne Paige, Denise Cornelius, Kedra Wallace, Alexia Thomas, Jeremy Scott, Janae Moseley¹, **Babbette LaMarca**. IL-10 supplementation suppressed hypertension and inflammation in response to placental ischemia during pregnancy. *Experimental Biology, San Diego CA, April 26-30, 2014.*
90. Jeremy Scott, Kedra Wallace, Denise Cornelius, Lorena M Amaral, Janae Moseley, Krystal Chatman, **Babbette LaMarca**. Oxidative stress signaling in response to CD4+T cells stimulated via placental ischemia play an important role in hypertension during preeclampsia *Experimental Biology, San Diego CA, April 26-30, 2014.*
91. Lorena M. Amaral, Luissa Kipprono, Kedra Wallace, Krystal Frazier, Janae Moseley, James N Martin, **Babbette LaMarca**. Progesterone supplementation improves blood pressure and uterine artery resistance and hypoxia-stimulated placental cytokines during pregnancy. *Experimental Biology, San Diego CA, April 26-30, 2014.*
92. Janae Moseley, Javier Castillo, Lorena Machado, Denise Cornelius, **Babbette LaMarca**. Specific Inhibition of AT1-AAs by direct binding improves maternal and fetal outcome in response to placental ischemia during pregnancy; emphasizing the importance of novel drug development in the treatment of preeclampsia. *Experimental Biology, San Diego CA, April 26-30, 2014.*
93. Denise C Cornelius, Kedra Wallace, Ashlyn Harmon, Adrienne Page, Janae Moseley, and **Babbette LaMarca**. Normal pregnant T Regs inhibit Pathophysiology associated with hypertension in response to Reduced Uterine Perfusion Pressure (RUPP) in pregnant rats. *Experimental Biology, San Diego CA, April 26-30, 2014*

94. Denise C. Cornelius, Javier Castillo, Justin Porter, Nathan Campbell, Alexia Thomas, Lorena M. Amaral, Kedra Wallace, Janae Moseley, **Babbette LaMarca** Interrupting lymphocyte communication reduces RUPP T cell induced hypertension and pathophysiology during pregnancy. Council for High Blood Pressure Research, AHA, San Francisco CA, Sept 9-12,2014.
95. Tarek Ibrahim, Lukasz Przybyl, Ashlyn C. Harmon, Denise Cornelius, Janae Moseley Lorena Amaral, Jessica Faulkner, Ralf Dechend and **Babbette LaMarca** Proliferation of endogenous T-reg cells improves the pathophysiology associated with placental ischemia of pregnancy. Council for High Blood Pressure Research, AHA, San Francisco CA, Sept 9-12,2014.
96. Jessica L Faulkner, Marie M Darby, Denise C Cornelius, Janae Moseley, Florian Herse, Ralf Dechend and **Babbette LaMarca**. Vitamin D supplementation reduces CD4+ T cells, blood pressure and autoantibodies to the AT1 receptor (AT1-AA) in a rat model of preeclampsia. Council for High Blood Pressure Research, AHA, San Francisco CA, Sept 9-12,2014.
97. Lorena M. Amaral, Denise C. Cornelius, Janae Moseley, James N Martin, **Babbette LaMarca**. Progesterone supplementation improves blood pressure and uterine artery resistance in response to placental ischemia during pregnancy. Council for High Blood Pressure Research, AHA, San Francisco CA, Sept 9-12,2014.
98. Ashlyn C. Harmon, Denise C. Cornelius, Kedra Wallace, Janae Moseley & **Babbette LaMarca**. CD4+ T cells isolated from Preeclamptic Women induces a Preeclampsia-Like Phenotype in Pregnant Nude-Athymic Rats Council for High Blood Pressure Research, AHA, San Francisco CA, Sept 9-12,2014.
99. Lee N, Spencer SK, **LaMarca** BB, Murphy S. Alterations in placental eicosanoid production contribute to impaired vascular remodeling in preeclampsia. *Pregnancy Hypertens.* 2015 Jan;5(1):131-2. 10.1016/j.preghy.2014.10.268.
100. Amaral LM, Cornelius DC, Moseley J, Martin JN, **LaMarca B**. 17-hydroxyprogesterone caproate attenuates hypertension and uterine artery resistance in response to Reduced Uterine Perfusion Pressure (RUPP) in pregnant rats. *Pregnancy Hypertens.* 2015 Jan;5(1):28. doi: 10.1016/j.preghy.2014.10.040. Epub 2015 Feb 23.
101. Cornelius DC, Wallace K, Scott JD, Campbell N, Thomas A, Hogg JP, Moseley J, **LaMarca B**. A role for TH17 cells and IL-17 in mediating the pathophysiology associated with preeclampsia. *Pregnancy Hypertens.* 2015 Jan;5(1):17. doi: 10.1016/j.preghy.2014.10.040. Epub 2015.
102. Faulkner JL, Darby MM, Cornelius DC, Harmon AC, Amaral LM, Moseley J, Herse F, Wallukat G, Dechend R, **LaMarca B** Treatment with Vitamin D attenuates blood pressure and immune activation in a preeclamptic rat model. *Pregnancy Hypertens.* 2015 Jan;5(1):17-8. doi: 10.1016/j.preghy.2014.10.038.
103. Harmon AC, Cornelius DC, Wallace K, Moseley J, **LaMarca B**. Placental CD4+ T cells isolated from preeclamptic women cause preeclampsia-like symptoms in pregnant nude-athymic rats. *Pregnancy Hypertens.* 2015 Jan;5(1):16-7. 10.1016/j.preghy.2014.10.038.
104. Nicole Lee, Shauna-Kay Spencer, **Babbette LaMarca**, Kedra Wallace, Sydney Murphy. Alterations in placental eicosanoids contribute to impaired vascular remodeling in preeclampsia. *AJOG*; 2015. 526:S263. Society for Maternal Fetal Medicine, San Diego, CA. February 2-7, 2015.
105. Jose Santiago-Font, Lorena Amaral, Ellen Gillis, Janae Moseley, **Babbette LaMarca**, Jennifer Sasser. Serelaxin reduces mean arterial pressure (MAP) and improves fetal growth in the RUPP rat model of preeclampsia. *AJOG*; 2015. 657:S324. Society for Maternal Fetal Medicine, San Diego, CA. February 2-7, 2015.
106. Jessica L. Faulkner, Sydney Murphy, Nicole Lee, Janae Moseley, **Babbette LaMarca**. Blockade of 20-HETE synthesis improves blood pressure in the RUPP rat model of preeclampsia. *Experimental Biology*; Boston, MA. March 28-31, 2015.
107. Denise C. Cornelius, Kedra Wallace, Lorena Amaral, Jeremy Scott, Janae Moseley, **Babbette LaMarca**. Placental Ischemia-induced TH17 Cells Mediate the Pathophysiology Associated with Preeclampsia. *Experimental Biology*; Boston, MA. March 28-31, 2015.
108. Mark W. Cunningham, Jessica L. Faulkner, Denise Cornelius, Lorena Amaral, Robert Kramer, **Babbette LaMarca**. Agonistic Autoantibodies to the Angiotensin II Type 1 Receptor Enhance ANGII Binding on Vascular Endothelial Cells. *Experimental Biology*; Boston, MA. March 28-31, 2015.
109. Lorena Amaral, Jose Santiago-Font, Ellen Gillis, Janae Moseley, Jennifer Sasser, **Babbette LaMarca**. Serelaxin Improves Blood Pressure and Uterine Artery Resistance in the Reduced Uterine

- Perfusion Pressure (RUPP) Rat Model of Preeclampsia. Experimental Biology; Boston, MA. March 28-31, 2015.
110. Denise C. Cornelius, D'Andrea Thomas, Jamil Elfarra, Taia McAfee, Janae Moseley, and **Babbette LaMarca**. A Role for IL-17 to Activate Cytolytic NK cells in Response to Placental Ischemia Hypertension Council AHA, Washington DC Sept 2015.
 111. Nathan Campbell, Mark W Cunningham, Jr., Denise C Cornelius, **Babbette LaMarca**. Inhibition of AT1-AAAs by Direct Binding Reduces Blood Pressure and Natural Killer Cells in Response to Placental Ischemia of Pregnancy; Emphasizing the Importance of Novel Drug Development in the Treatment of Preeclampsia Hypertension Council AHA, Washington DC Sept 2015
 112. Lorena M. Amaral, Jamil Elfarra, Denise C. Cornelius, Jessica L Faulkner, Mark W. Cunningham Jr., Taia R. McAfee, D'andrea S.Thomas, **Babbette LaMarca**. Early administration of 17-hydroxyprogesterone caproate improves fetal growth restriction possibly by reducing sFlt-1 and placental cytolytic NK cells in response to placental ischemia during pregnancy. Hypertension Council AHA, Washington DC Sept 2015
 113. Tarek Ibrahim, Lukasz Przybyl, Ashlyn C. Harmon, Denise C. Cornelius, Janae Moseley, Lorena M. Amaral, Jessica L. Faulkner, Ralf Dechend and **Babbette LaMarca**. Proliferation of Endogenous T-regs Improves the Pathophysiology Associated with Placental Ischemia of Pregnancy Hypertension Council AHA, Washington DC Sept 2015
 114. Mark W. Cunningham Jr., Jan Williams, and **Babbette LaMarca**. Agonistic Autoantibodies to the Angiotensin II Type 1 Receptor enhances ANG II Induced Renal Vascular Resistance and Renal Function. Hypertension Council AHA, Washington DC Sept 2015
 115. Jamil Elfarra, Lorena M. Amaral Denise C. Cornelius, Jessica L Faulkner, Mark W. Cunningham Jr., Taia R. McAfee, D'andrea S.Thomas, **Babbette LaMarca**. Administration of 17-hydroxyprogesterone caproate in mid-gestation improves fetal growth possibly by reducing sFlt-1 and placental cytolytic NK cells in the Reduced Uterine Perfusion Pressure (RUPP) rat model of Preeclampsia. SMFM-the pregnancy meeting, Atlanta GA, Feb 1-6, 2016.
 116. Nicole Lee, Jessica L Faulkner, Sydney Murphy, **Babbette LaMarca** Blockade of 20-HETE synthesis improves blood pressure and fetal survival in the RUPP rat model of preeclampsia SMFM-the pregnancy meeting, Atlanta GA, Feb 1-6, 2016.
 117. Jose A. Santiago-font, Lorena M. Amaral, Tarik Ibrahim, Ellen Gillis, Jennifer M. Sasser, **Babbette LaMarca**. Serelaxin improves endothelial dysfunction and uterine artery resistance in response to placental ischemia during pregnancy SMFM-the pregnancy meeting, Atlanta GA, Feb 1-6, 2016.
 118. Venkata Ramana Vaka, Mark W. Cunningham Jr, Kristin Shirey, Tarek Ibrahim, Jonathan Hosler, **Babbette LaMarca** Inhibition of Angiotensin II Type I Receptor Agonistic Autoantibody Reduces Mitochondrial Mediated Oxidative Stress and Hypertension in Reduced Uterine Perfusion Pressure Rats. Experimental Biology, San Diego CA, April 2-5 2016
 119. Jessica L Faulkner, Lorena M Amaral, Denise C Cornelius, Mark W Cunningham, Tarek Ibrahim, D'Andrea Thomas, Florian Herse, Ralf Dechend and **Babbette LaMarca** Vitamin D Inhibits Endothelial Dysfunction Markers Mediated by AT1 autoantibodies in Pregnancy. Experimental Biology, San Diego CA, April 2-5 2016
 120. Mark W. Cunningham Jr, Javier Castillo, Frank Spradley, Jessica Faulkner, Tarek Ibrahim, Jamil Elfarra, **Babbette LaMarca** Angiotensin II Type 1 Receptor Agonistic Autoantibody Inhibition Improves Maternal Outcomes in Reduce Uterine Perfusion Pressure Rats Experimental Biology, San Diego CA, April 2-5 2016
 121. Vaka VR, McMaster KM, Cunningham MW, Amaral LM, Ibrahim T, Cornelius DC, **LaMarca B**. NK cells play an important role in placental ischemia induced mitochondrial dysfunction in Reduced Uterine Perfusion Pressure (RUPP) rats. Pharmacology 2016, London UK, Dec 13-15.
 122. Denise C. Cornelius, Maggie McCalmon, Lorena M. Amaral, Jamil Elfarra, Mark W. Cunningham, Jr., Tarek Ibrahim, Jeremy D. Scott, and **Babbette LaMarca** Depletion of Natural Killer Cells Activated in Response to Placental ischemia improves Hypertension and IUGR during Pregnancy. Council on Hypertension AHA, Orlando FL, Sept 14-17
 123. Tarek Ibrahim, Lukasz Przybyl, Ashlyn C. Harmon, Denise C. Cornelius, Mark W. Cunningham Jr., Lorena M. Amaral, Jessica L. Faulkner, Ralf Dechend and **Babbette LaMarca** Stimulating Endogenous T-regs Improves the Pathophysiology Associated with Placental Ischemia of Pregnancy. Council on Hypertension AHA, 2017. Orlando FL, Sept 14-17

124. Lorena M. Amaral, Jamil Elfarra, Denise C. Cornelius, Mark W. Cunningham Jr., Tarek Ibrahim, **Babbette LaMarca**. 17-hydroxyprogesterone caproate improves blood pressures and placental cytolytic NK cells in response to placental ischemia during pregnancy. Council on Hypertension AHA, 2017. Orlando FL, Sept 14-17.
125. Mark W. Cunningham Jr.¹, Nadine Haase², Jessica L. Faulkner¹, Tarek Ibrahim¹, Venkata Ramana Vaka¹, Ralf Dechend², Don Foster³, and **Babbette LaMarca**¹ Selective Maternal Hepatic Silencing of Angiotensinogen in Reduced Uterine Placental Perfusion Pressure (RUPP) Rats Improves Blood Pressure and Fetal Weights. Council on Hypertension AHA, 2017. Orlando FL, Sept 14-17
126. Kristen McMaster, Venkata Ramana Vaka, Mark W. Cunningham Jr, **Babbette LaMarca**. Mitochondrial dysfunction occurs in response to placental ischemia; identifying new players in the pathology of Preeclampsia, SMFM 2017, LasVegas NV Jan 25-28
127. Jamil Elfarra¹, Lorena M Amaral², Maggie McCalmon³, Ashley Gnam², Mark W. Cunningham, Jr.², Tarek Ibrahim², Jeremy D. Scott², **Babbette LaMarca**^{1,2}, Denise C Cornelius^{2,3} A role for Natural Killer cells in the pathophysiology of preeclampsia SMFM 2017, LasVegas NV Jan 25-28
128. Lorena M. Amaral¹, Jamil Elfarra², Denise C. Cornelius³, Mark W. Cunningham Jr.¹, **Babbette LaMarca**¹ 17-hydroxyprogesterone caproate improves fetal growth restriction possibly by reducing inflammation and placental cytolytic NK cells in response to placental ischemia during pregnancy. Experimental Biology 2017, Chicago IL, April 21-25.
129. Venkata Ramana Vaka¹, Kristen M. McMaster², Mark W. Cunningham Jr¹, Lorena M. Amaral¹, Tarek Ibrahim¹, Denise Cornelius³, **Babbette LaMarca**^{1, 2}. Role of Natural Killer Cells as Mediators of Mitochondrial Dysfunction Induced by Placental Ischemia in the Reduced Uterine Perfusion Pressure (RUPP) Rat Model of Preeclampsia Experimental Biology 2017, Chicago IL, April 21-25.
130. Denise Cornelius³ Venkata Ramana Vaka¹, Kristen M. McMaster², Mark W. Cunningham Jr¹, Lorena M. Amaral¹, Tarek Ibrahim¹, **Babbette LaMarca**^{1, 2}. Natural Killer Cells Stimulated in Response to Placental Ischemia Mediate Hypertension, Intrauterine Growth Restriction, and Inflammation during Pregnancy Experimental Biology 2017, Chicago IL, April 21-25.
131. Mark W. Cunningham, Venkata Ramana Vaka¹ Denise Cornelius³, Kristen M. McMaster², Mark W. Cunningham Jr¹, Lorena M. Amaral¹, Tarek Ibrahim¹, **Babbette LaMarca**^{1, 2}. Inhibition of Angiotensin II Type 1 Receptor Agonistic Autoantibody Binding Improves Maternal Outcomes in Rats with Placental Ischemia Experimental Biology 2017, Chicago IL, April 21-25.
132. Venkata Ramana Vaka¹, Kristen M. McMaster², Mark W. Cunningham Jr¹, Lorena M. Amaral¹, Tarek Ibrahim¹, Denise Cornelius³, **Babbette LaMarca**¹ Natural Killer Cells Contribute to Placental Mitochondrial Dysfunction in Response to Placental Ischemia in Reduced Uterine Perfusion Pressure (RUPP) Rat Model of Preeclampsia. 2017 APS Mitochondria Meeting, Westminster CO.
133. Cornelius DC, Shields CA, McCalmon M, Ibrahim T, **LaMarca B**. Placental Ischemia Stimulated TH17 Cells Induce Preeclampsia-Associated Cytolytic Natural Killer Cells during Pregnancy. Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
134. Cunningham MW.Jr., Vaka VR, Amaral L, Fan F, Ibrahim T, Roman R.J., and **LaMarca B**. Angiotensin II Type 1 Receptor Autoantibody Inhibition Improves Blood Pressure and Markers of Neurological Damage and Oxidative Stress in Brains of Placental Ischemic Rats during Pregnancy Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
135. Venkata Ramana Vaka, Kristen M. McMaster, Mark W. Cunningham Jr, Tarek Ibrahim, Lorena M. Amaral, Denise Cornelius, **Babbette LaMarca**. Circulating Factors in Response to Placental Ischemia Cause Vascular Endothelial Mitochondrial Oxidative Stress Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
136. Venkata Ramana Vaka, Kristen M. McMaster, Mark W. Cunningham Jr, Tarek Ibrahim, Lorena M. Amaral, Nathan Usry, **Babbette LaMarca**. Placental Ischemia Causes Renal Mitochondrial Impairment in Reduced Uterine Perfusion Pressure Rats Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
137. Tarek Ibrahim, Ashlyn C. Harmon, Denise C. Cornelius, Lorena Amaral, Mark Cunningham, Kedra Wallace, **Babbette LaMarca**. Preeclamptic placental CD4+ T cells cause preeclamptic like features in normal pregnant nude athymic rats Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
138. Lorena M. Amaral, Jesse Cottrell, Ashlyn Harmon, Denise C. Cornelius, Mark W. Cunningham Jr., Gerd Wallukat, Florian Herse, Tarek Ibrahim, Ralf Dechend, and **Babbette LaMarca** Interleukin-4

- supplementation improves chronic inflammation and hypertension in response to placental ischemia during pregnancy Council on Hypertension AHA, 2017. San Francisco CA, Sept 14-17.
139. Jesse Cottrell, Lorena M. Amaral, Ashlyn Harmon, Denise C. Cornelius, Mark W. Cunningham Jr, Gerd Wallukat, Florian Herse, Tarek Ibrahim, Ralf Dechend, and **Babbette LaMarca** Interleukin-4 supplementation improves the pathophysiology of preeclampsia in response to placental ischemia. 2018 sMFM; the pregnancy meeting. Dallas Texas
 145. McMaster, K., Vaka, V.R., **LaMarca, B.** Preeclampsia is associated with placental mitochondrial dysfunction. Society for Maternal Fetal Medicine 38th Annual Pregnancy Meeting, Dallas, TX. February 2018
 140. McMaster, K., Vaka, V.R., **LaMarca, B.** Mitochondrial dysfunction in Preeclampsia demonstrated by increased Reactive Oxygen Species production. Society for Maternal Fetal Medicine 38th Annual Pregnancy Meeting, Dallas, TX. February 2018
 141. Cornelius DC, Shields CA, McCalmon M, White D, Ibrahim T, **LaMarca B.** Placental Ischemia Stimulated TH17 Cells Induce Preeclampsia-Associated Cytolytic Natural Killer Cells during Pregnancy Experimental Biology 2018, San Diego CA, April 21-25.
 142. Vaka VR, McMaster KM., Amaral LM., Tarek Ibrahim, Wallace K, **LaMarca B.** The role of mitochondrial oxidative stress in the pathophysiology of Preeclampsia. Experimental Biology 2018, San Diego CA, April 21-25.
 143. Amaral LM., Cottrell JN., Cornelius DC., Cunningham M W , Ibrahim T, **LaMarca B.** Progesterone induced blocking factor improves fetal growth restriction possibly by reducing inflammation and placental cytolytic NK cells in response to placental ischemia during pregnancy Experimental Biology 2018, San Diego CA, April 21-25.
 144. Cunningham MW, Ibrahim T, Cornelius D, Amaral L, Vaka VR, **LaMarca B.** The Role of Interleukin-2 (IL-2) in Natural Killer Cell (NK) Activation and Hypertension in a Preclinical Rat Model of Preeclampsia. Experimental Biology 2018, San Diego CA, April 21-25.
 146. Amaral L M, Cunningham Jr. M.W. , Vaka V R, Ibrahim T, **LaMarca B** Progesterone supplementation abolishes sFlt-1 induced hypertension in pregnant rats. AHA Council on Hypertension and Kidney Council, 2018 Chicago IL, Sept 5-8.
 147. Cottrell J, Amaral L M, Cunningham Jr. M W., Vaka V R, Ibrahim T, **LaMarca B** Progesterone supplementation abolishes sFlt-1 induced hypertension in pregnant rats. Society for Maternal Fetal Medicine; the pregnancy meeting. 2019 Las Vegas NV, Feb 11-16.
 148. Jayaram A, Cunningham, Jr. M W, Amaral L, Cornelius D, Ibrahim T, Vaka V R, **LaMarca B.** Tumor Necrosis Factor (TNF α) Blockade improves Natural Killer Cell (NK) Activation and Hypertension in a Preclinical Rat Model of Preeclampsia Society for Maternal Fetal Medicine; the pregnancy meeting. 2019 Las Vegas NV, Feb 11-16.
 149. Amaral, L. Cottrell J N, Cornelius D C, Cunningham Jr M W, Ibrahim T, Vaka V R, **LaMarca B** Progesterone Induced Blocking Factor Improves the Pathophysiology of Preeclampsia in Response to Placental Ischemia during Pregnancy 2019 Society for Reproductive Investigations, Paris France, March 12-16.
 150. Jayaram A, Cunningham, Jr. M W, Amaral L, Cornelius D, Ibrahim T, Vaka V R, **LaMarca B.** Reduction in hypertension with Etanercept in a preclinical rat model of preeclampsia is associated with reduced NK cell activation and sFlt-1. 2019 Society for Reproductive Investigations, Paris France, March 12-16.
 151. Jesse Cottrell, Lorena M. Amaral, Ashlyn Harmon, Denise C. Cornelius, Mark W. Cunningham Jr, Gerd Wallukat, Florian Herse, Tarek Ibrahim, Ralf Dechend, and **Babbette LaMarca** Interleukin-4 supplementation improves the pathophysiology of preeclampsia in response to placental ischemia. 2019. Experimental Biology Orlando FL, April 5-9.
 152. Cunningham, Jr. M W, Jayaram A, Amaral L, Chinthakuntla P, Brooks K, Booz G W, Vaka V R, T Ibrahim T, Deer E, Cornelius D, **LaMarca B.** Tumor Necrosis Factor (TNF α) Blockade improves Natural Killer Cell (NK) Activation, Hypertension, and Mitochondrial Oxidative Stress in a Preclinical Rat Model of Preeclampsia. AHA Council on Hypertension, 2019 New Orleans, LA, Sept 5-9
 153. Cornelius DC, Travis O, White D, Baik C, Thompson W, Giachelli C, Williams J M, **LaMarca B.** IL-17 Signaling Mediates Cytolytic Natural Killer Cell Activation in Response to Placental Ischemia . AHA Council on Hypertension, 2019 New Orleans, LA, Sept 5-9

154. Amaral L M., Cottrell J N., Cunningham Jr. M W., Ibrahim T, Vaka V R, **LaMarca B** Inhibition of Progesterone induced blocking factor causes clinical characteristics of preeclampsia in Sprague Dawley rats AHA Council on Hypertension, 2019 New Orleans, LA, Sept 5-9
155. Owen Herrock, Lorena Amaral, Sarah Fitzgerald, James Lemon, Evangeline Deer, Tarek Ibrahim, **Babbette LaMarca** B Cells contribute to Hypertension and cytolytic NK Cell Activation in Preeclampsia. UMMC Research Day, UMMC Jackson, MS, Sept 27 2019
156. Sarah Fitzgerald, Evangeline M. Deer, Owen Herrock, Tarek Ibrahim , Lorena M. Amaral, and **Babbette LaMarca**. Placental Ischemia-Stimulated TH-17 Cells cause Increased Oxidative Stress during Pregnancy UMMC Research Day, UMMC Jackson, MS, Sept 27 2019
157. Jayaram A, Vaka VR, Cunningham, Jr. MW, Ibrahim T, Amaral L, Deer E, Cornelius D, **LaMarca B**. Mitochondrial oxidative stress and respiration in Tumor Necrosis Alpha induced hypertension in normal pregnant rats. Society of Maternal Fetal Medicine Dallas Texas Feb 2020
158. Reeve K.E., Deer E, Amaral LM., Vaka VR, Franks M, Fitzgerald S, Herrock O, Ibrahim T, and **LaMarca B**. CD4+ T Cells from a rat model of preeclampsia activate NK cells to cause mitochondrial oxidative stress and hypertension in normal pregnant rats Society of Maternal Fetal Medicine Dallas Texas Feb 2020
159. Witcher AC., Comley K, Cottrell JN., Cunningham MW.Jr., IbrahimT, **LaMarca B**, AmaralLM. Inhibition of progesterone induced blocking factor increases inflammation and markers of endothelial dysfunction in pregnant Sprague Dawley rats Society of Maternal Fetal Medicine Dallas Texas Feb 2020
160. Lorena M. Amaral, Evangeline Deer, Kyleigh Comley, Denise C. Cornelius, Jalisa Jones, Tarek Ibrahim, Ramana Vaka, Michael Franks, **Babbette LaMarca**. Progesterone induced blocking Factor attenuates hypertension and placental mitochondrial dysfunction and reactive oxygen species in response to sFlt-1 during pregnancy. Society for Reproductive Investigation, March 10-14 2020, Vancouver, Canada.
161. Herrock OT., Amaral L, Fitzgerald S, Lemon J, Deer E, Ibrahim T, Campbell N, Usry N, and **LaMarca B**. B cells contribute to hypertension and cytolytic NK cell activation in response to placental ischemia Experimental Biology Conference, San Diego, CA, April 4-7, 2020
162. Evangeline Deer, Jalisa Jones, Denise C. Cornelius, Tarek Ibrahim, Ramana Vaka, Michael Franks, **Babbette LaMarca**, and Lorena M. Amaral. The reduction of hypertension and placental mitochondrial dysfunction/reactive oxygen species with progesterone induced blocking factor in response to sFlt-1 during pregnancy Experimental Biology, April 4-7 2020, San Diego, CA.
163. Deer E, Reeve K.E., Amaral LM., Vaka VR, Franks M, Fitzgerald S, Herrock O, Ibrahim T, and **LaMarca B**. CD4+ T Cells from a rat model of preeclampsia activate NK cells to cause mitochondrial oxidative stress and hypertension in normal pregnant rats Experimental Biology, April 4-7 2020, San Diego, CA.
164. Sarah Fitzgerald, Evangeline Deer, Lorena Amaral, Owen T. Herrock, Tarek Ibrahim, **LaMarca B**. IL-17 Signaling Stimulates Natural Killer Cell Activation and Causes Mitochondrial Dysfunction in Response to TH17 Cells Stimulated in Response to Placental Ischemia During Pregnancy. Experimental Biology, April 4-7 2020. San Diego, CA.
165. Nathan Campbell, Evangeline Deer, Lorena Amaral, Kristin Reeve, Sarah Fitzgerald, Owen Herrock, Michael Franks, Tarek Ibrahim, and **Babbette LaMarca** Prevention of T Cell Activation in Response to Placental Ischemia Improves Hypertension and Natural Killer Cell Number During Pregnancy Experimental Biology, April 4-7 2020. San Diego, CA.
166. **BLaMarca**, OT. Herrock, SFitzgerald, JLemon, EDeer, TIbrahim, NCampbell, Lamaral. The importance of B2 cells in the pathophysiology of hypertension in response to placental ischemia. European Society of Hypertension/Italian Society of Hypertension, Glaskow Scotland, May 29-June 2 2020
167. Owen T. Herrock, Lorena Amaral, Sarah Fitzgerald, James Lemon, Evangeline Deer, Tarek Ibrahim, Nathan Campbell, Nathan Usry, and Babbette **LaMarca B** Cells Contribute to Hypertension and Cytolytic NK Cell Activation in Response to Placental Ischemia in Pregnancy. 2020 Council on Hypertension. **Poster** (Virtual)

INVITED SEMINARS AND SYMPOSIA:

- 2021 European society of Hypertension/Italian Society of Hypertension, Glaskow Scotland, April (Virtual)
- 2021 Experimental Biology, Invited Speaker American Association of Anatomy, San Diego, CA (virtual)
- 2020 Group on Women In Medicine and Science, UMMC, Guest Speaker, virtual
- 2019 Department of Physiology & Anatomy, University of North Texas Health Science Center
- 2018 Dept of Pathology, LSU Health, Shreveport, LA
- 2018 Dept of Pharmacology, University of Tennessee Health Sciences Center, Memphis TN
- 2018 American Society for Microbiology, South Central Branch, Scientific Careers
- 2016 Iowa Medical School, invited Semiar speaker
- 2016 American Society of Nephrology: Kidney Week
- 2016 APS Conference: Inflammation, Immunity and Cardiovascular Disease
- 2016 Role of Inflammation in mediating hypertension during pregnancy, FASEB Summer Conference: Renal Microcirculation
- 2015 Tox Talx, San Francisco CA
- 2015 Bowditch Lecturer, American Physiological Society, Boston, MA
- 2014 State of the Art Speaker International Society for the Study of Hypertension in Pregnancy; New Orleans , October 26-29, 2014
- 2014 22nd Easley Symposium Resident Research Day, Health System/University of South Carolina Medical School, Greenville South Carolina
- 2014 Immune Mechanisms that Mediate the Pathophysiology of Preeclampsia American Society of Hypertension (ASH) 2014, New York, New York
- 2014 Renal Section/APS, Symposium, Experimental Biology 2014, San Diego CA
- 2013 Immune Cells in Pregnancy-Related Hypertension, Cardiovascular Seminar entitled Inflammation, Immunity and Hypertension, Sicientific Session, AHA, Dallas TX.
- 2013 Trainee Advisory Committee/APS Symposium, Experimental Biology, 2013, Boston MA
- 2013 Tox Talx, San Francisco CA
- 2012 Inflammation and Autoantibodies; linking placental ischemia with hypertension during pregnancy: American Society of Hypertension (ASH)
- 2011 APS Conference: Physiology and Cardiovascular Disease:Gender Disparities , Jackson MS
- 2011 Role of Immune Factors in Mediating Hypertension during pregnancy, American Society of Hypertension (ASH)
- 2011 Tox Talx, San Francisco CA
- 2010 Role of ROS and ET in hypertension during pregnancy, FASEB Summer Conference: Renal Microcirculation
- 2009 Role of AT1-AA in mediating hypertension during pregnancy InterAmerican Society of Hypertension, Brazil
- 2008 Animal models of pregnancy related hypertension workshop; International Society for Studies of Hypertension during Pregnancy; Washington DC
- 2008 Department of Pharmacology Lecture Series, University of Mississippi Medical Center, Jackson MS
- 2007 Tox Talx, San Francisco CA
- 2007 Water and Electrolyte Young Investigator Competition, Experimental Biology Washington DC
- 2006 Senior Seminar Series, Biology Department, Mississippi College, Clinton Mississippi
- 2006 Division for Systems and Integrative Pharmacology Symposium: Pharmacology of Cytokines in the Cardiovascular System. Experimental Biology, San Francisco, CA
- 2005 Gender Differences Workshop, Council for High Blood Pressure Research, Washington DC
- 2005 Senior Seminar Series, Biology Department, Mississippi College, Clinton, Mississippi

Letters for written recommendation

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