

**CURRICULUM VITAE**  
**MICHAEL D. BROWN, PHD, FAHA, FACSM, FNAK**

I have read the following and certify that it is a current and accurate statement of my professional record.



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Michael D. Brown

5/1/30/18

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Date

**1. PERSONAL INFORMATION**

***Demographics***

Michael David Brown  
Professor, School of Kinesiology

Phone: 334-844-1982  
Email: mdb0075@auburn.edu

College of Education  
Auburn University

***Education***

1995	Ph.D.	University of Maryland, College Park
1989	M.S.	California State University, Long Beach
1985	B.A.	California State University Long Beach

***Area of Specialty***

Hypertension and Exercise as a Preventive and Treatment Strategy for Hypertension in African Americans, Endothelial Cell Function.

***Postdoctoral Training***

1995-1998	University of Michigan School of Medicine, Department of Internal Medicine, Geriatrics Division: Age-associated Hypertension
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1995-1998	University of Michigan, Institute of Gerontology: Norepinephrine Kinetics and Salt-Sensitive Hypertension
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***Professional Appointments***

9/2017-present	Professor, School of Kinesiology, Auburn University
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9/2017-present	Core Faculty, Center for Health Ecology and Equity Research, Auburn University
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3/2014	Core Faculty, Institute for Minority Health Research, University of Illinois at Chicago
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8/2012-2017	Professor Department of Kinesiology and Nutrition, University of Illinois at Chicago
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8/2012-6/2017	Director of the Integrative Physiology-Clinical Interface Core, Collaboration, Center for Clinical and Translational Science, Department of Kinesiology and Nutrition, University of Illinois at Chicago.
6/2013-7/2014	Director of Graduate Studies Department of Kinesiology and Nutrition, University of Illinois at Chicago.
8/2006-2012	Associate Professor Department of Kinesiology, Temple University, Philadelphia, PA.
7/2007-2012	Associate Professor, Secondary Appointment Cardiovascular Research Center, Temple University School of Medicine, Philadelphia, PA.
6/2011-2012	Associate Professor, Secondary Appointment Department of Public Health, Temple University, Philadelphia, PA.
2004-2006	Associate Professor Department of Kinesiology, University of Maryland, College Park, MD.
1998-2004	Assistant Professor Department of Kinesiology, University of Maryland, College Park, MD.
1995-1998	Research Associate Department of Internal Medicine, University of Michigan Medical School, Ann Arbor, MI.
1993-1995	Research Fellow, Preventive Cardiology, University of Pittsburgh Medical School, Pittsburgh, PA.
1991-1993	Graduate Fellow Center on Aging, University of Maryland, College Park, MD.
1989-1991	Lecturer, Department of Kinesiology, California State University, San Bernardino, CA.

***Professional Affiliations***

American Heart Association High Blood Pressure Research Council (**Fellow**)

American College of Sports Medicine (**Fellow**)

American College of Sports Medicine Minority Health Research Interest Group

North American Artery (**Fellow**)

National Academy of Kinesiology (**Fellow**)

### ***Honors, Awards, Recognition***

- 1989 Graduate Honor Award, School of Applied Arts and Sciences, California State University Long Beach
- 1991 Graduate School Fellowship, Center on Aging, University of Maryland
- 1991 California State University Doctoral Scholarship
- 1993 National Institute on Aging, Individual National Research Service Award Predoctoral Fellowship.
- 1997 Trainee Investigator Award, American Federation of Medical Research, Biomedicine Meetings, Washington, DC
- 1999 Travel Award, Federation of American Societies for Experimental Biology Research Careers Grant Writer's Seminars and Workshops, Orlando, FL
- 2001 Fellow, American Heart Association Council for High Blood Pressure Research
- 2006 Featured in the "Impressive Scholars" section of the College of Health Professions Annual Report
- 2007 Featured in the Temple Review, Campus News Section
- 2008 Featured in "Focus on Research" Faculty Highlights, Temple University Research and Graduate Studies
- 2008 Fellow, American College of Sports Medicine
- 2011 Listing in Who's Who in America, 6<sup>th</sup> Edition 2011 (Chicago: Marquis Who's Who in America)
- 2011 Featured in Philadelphia Daily News Newspaper, "In Philadelphia Area, these Five African American Scientists have Found High Trajectory," February.
- 2011 Interviewed by WHYY radio about recent study I published in the Journal of Vascular Health and Risk Management entitled "Racial Differences in Tumor Necrosis Factor- $\alpha$ -Induced Endothelial Microparticle and Interleukin-6 Production"
- 2011 An article in the Temple Today entitled "Differences in cell response could explain higher rates of hypertension in African Americans" featured my publication in the Journal of Vascular Health and Risk Management.
- 2011 Appeared in the Journal of Blacks in Higher Education (<http://www.jbhe.com/2011/10/temple-university-scientist-seeks-to-explain-why-blacks-are-more-likely-to-suffer-from-hypertension/>).
- 2013 Fellow, University of Illinois at Chicago Honors College

## **2. RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES**

### ***Articles in Refereed Journals.***

**MD Brown**, GM Moore, MT Korytkowski, SD McCole, JM Hagberg. (1997). Improvement of insulin sensitivity by short-term exercise training in hypertensive African Americans. Hypertension. 30: 1549-1553. PMID: 9403581.

**Impact Factor= 6.908.**

DR Dengel, RV Hogikyan, **MD Brown**, SG Glickman, MA Supiano. (1998). Insulin sensitivity is associated with blood pressure response to sodium in older hypertensives. American Journal of Physiology Endocrinology Metabolism. 274: E403-E409. PMID: 9530121.

**Impact Factor= 4.4.**

SD McCole, **MD Brown**, GE Moore, JM Zmuda, LK Liu, J Cwynar, JM Hagberg. (1999). Cardiovascular hemodynamics with increasing exercise intensities in postmenopausal women. Journal of Applied Physiology. 87(6): 2334-2340. PMID: 10601186.

**Impact Factor= 4.232.**

**MD Brown**, DR Dengel, RV Hogikyan, SG Glickman, A Galecki, M A. Supiano. (2000). Increased nitric oxide biomarkers during exercise-induced vasodilation in the forearm. International Journal Sports Med, 20: 1-7. PMID: 10727066.

**Impact Factor= 2.281.**

N Taylor-Tolbert, DR Dengel, **MD Brown**, SD McCole, RE Pratley, RE Ferrell, JM Hagberg (2000). Ambulatory blood pressure after acute exercise in older men with essential hypertension. American Journal Hypertension. 13(1): 44-51. PMID: 10678270.

**Impact Factor= 3.129.**

**MD Brown**, DR Dengel, RV Hogikyan, M A. Supiano. (2000). Sodium-sensitive hypertension is not associated with higher sympathetic nervous system activity in older hypertensive humans. American Journal of Hypertension. 13(4): 102-108. PMID: 10950395.

**Impact Factor= 3.129.**

SD McCole, **MD Brown**, GE Moore, JM Zmuda, LK Liu, J Cwynar, JM Hagberg. (2000). Enhanced cardiovascular hemodynamics in endurance-trained postmenopausal women athletes. Medicine and Science in Sports & Exercise. 32(6): 1073-1079. PMID: 10862532.

**Impact Factor= 4.106.**

**MD Brown**, SD McCole, GE. Moore, MT Korytkowski, JM Zmuda, JM Hagberg. (2000). Insulin sensitivity in postmenopausal women: independent and combined associations with hormone replacement, cardiovascular fitness, and body composition. Diabetes Care. 23(12): 1731-1736. PMID: 11128342.

**Impact Factor= 7.14.**

**MD Brown**, RE Ferrell, SD McCole, GE Moore, MT Korytkowski, JM Zmuda, JM Hagberg. (2001). FABP2 genotype is associated with insulin sensitivity in older women. Metabolism. 50(9): 1102-1105. PMID: 11555846.

**Impact Factor= 2.538.**

DR Dengel, **MD Brown**, RE Ferrell, MA Supiano. (2001). The role of angiotensin-converting enzyme gene in sodium sensitivity in older hypertensives. American Journal of Hypertension. 14(12): 1178-1184. PMID:11775123.

**Impact Factor= 3.129.**

**MD Brown**, RV Hogikyan, DR Dengel, M A. Supiano. (2002). Sympathetic nervous system activity contributes to the heterogeneous blood pressure response to exercise training in older hypertensives. Journal of Applied Physiology. 92:1434-1442. PMID: 11896007.

**Impact Factor= 4.232.**

EP Weiss, **MD Brown**, AR Shuldiner, JM Hagberg. (2002). Fatty acid binding protein-2 gene variants and insulin resistance: gene and gene-environment interaction effects. Physiological Genomics. 10:145-157. PMID: 12209017.

**Impact Factor= 3.368.**

JM Hagberg, SD McCole, **MD Brown**, RE Ferrell, KR Wilund, A Huberty, L Douglass, GE Moore. (2002). ACE insertion/deletion polymorphism and submaximal exercise hemodynamics in postmenopausal women. Journal of Applied Physiology. 92: 1083-1088. PMID: 11842043.

**Impact Factor= 4.232.**

SD McCole, **MD Brown**, GE Moore, RE Ferrell, KR Wilund, JM Hagberg. (2002). Angiotensinogen M235T polymorphism associates with exercise hemodynamics in postmenopausal women. Physiological Genomics. 10: 63-69. PMID: 12181363.

**Impact Factor= 3.368.**

DR Dengel, **MD Brown**, RE Ferrell, TH Reynolds, and MA Supiano. (2002). Exercise-induced enhancements in insulin action are associated with ACE gene polymorphisms in older hypertensives. Physiological Genomics. 11: 73-80. PMID: 12388790.

**Impact Factor= 3.368.**

TH Reynolds, **MD Brown**, MA Supiano, DR Dengel. (2002). Aerobic exercise training improves insulin sensitivity independent of plasma TNF- $\alpha$  levels in older hypertensives. Metabolism, 51: 1402-1406. PMID: 12404188.

**Impact Factor= 2.538.**

SJ Prior, JM Hagberg, DA Phares, **MD Brown**, L Fairfull, RE Ferrell, and SM Roth. (2003). Sequence variation in hypoxia-induced factor alpha (HIF1). Physiological Genomics, 15: 20-26. PMID: 12865501.

**Impact Factor= 3.368.**

SA Data, RE Ferrell, BD Hand, MH Roltsch, JJ Park, and **MD Brown**. (2003). Interactive effects of the eNOS gene and physical activity levels on reactive hyperemia. Medicine and Science in Sports & Exercise, 35:1991-1997. PMID: 14652493.

**Impact Factor= 4.106.**

SD McCole, AR Shuldiner, **MD Brown**, GE Moore, RE Ferrell, KR Wilund, A Huberty, LW Douglass, and JM Hagberg. (2004).  $\beta_2$ - and  $\beta_3$ -adrenergic receptor polymorphisms and exercise hemodynamics in postmenopausal women. Journal of Applied Physiology. 96:526-530. PMID: 14715679.

**Impact Factor= 4.232.**

EP Weiss, JJ Park, JA McKenzie, JY Park, O Kulaputana, **MD Brown**, DA Phares, JM Hagberg. (2004) Plasma nitrate/nitrite response to an oral glucose load and the effect of endurance training. Metabolism. 53:673-679. PMID: 15131776.

**Impact Factor= 2.538.**

CC Lee, SG Glickman, DR Dengel, **MD Brown**, and MA Supiano. (2005). Abdominal adiposity assessed by dual energy x-ray absorptiometry provides a gender-independent predictor of insulin sensitivity in older adults. Journal of Gerontology. 7:872-877. PMID: 16079210.

**Impact Factor= 3.988.**

MH Roltsch, **MD Brown**, BD Hand, MC Kostek, DA Phares, A Huberty, LW Douglass, RE Ferrell, JM Hagberg. (2005). No association between ACE I/D polymorphism and cardiovascular hemodynamics during exercise in young women. International Journal of Sports Medicine. 26(8):638-644. PMID: 16158368.

**Impact Factor= 2.282.**

JY Park, RE Ferrell, JJ Park, JM. Hagberg, DA Phares, JM Jones, and **MD Brown**. (2005). NADPH Oxidase p22phox Gene Variants are Associated with Systemic Oxidative Stress Biomarker Responses to Exercise Training. Journal of Applied Physiology. 99: 1905-1911. PMID: 16002772.

**Impact Factor= 4.232.**

DR Dengel, **MD Brown**, TH Reynolds, and MA Supiano. (2006). Effect of aerobic exercise training on renal responses to sodium in hypertensives. Medicine and Science in Sports & Exercise, 38: 217-222. PMID: 16531887.

**Impact Factor= 4.106.**

Prior SJ, Hagberg JM, Paton CM, Douglass LW, Brown MD, McLenithan JC, Roth SM. (2006). DNA sequence variation in the promoter region of the VEGF gene impacts VEGF gene expression and maximal oxygen consumption. American Journal of Physiology: Heart and Circulatory Physiology, 290: H1848-H1855. PMID: 16339827.

**Impact Factor= 3.88.**

DR Dengel, **MD Brown**, TH Reynolds, MA Kuskowski, and MA Supiano. (2006). Effect of aerobic exercise training on blood pressure sensitivity to dietary sodium in older hypertensives. Journal of Human Hypertension, 20: 372-378. PMID: 16484991.

**Impact Factor= 2.176.**

CM Paton, **MD Brown**, FM Ivey, SM Roth, JM Hagberg. (2006). Hemostatic response to postprandial lipemia before and after exercise training. Journal of Applied Physiology. 101(1): 316-321. PMID: 16497841.

**Impact Factor= 4.232.**

JM Jones, JJ Park, JJ Johnson, D Vizcaino, BD Hand, RE Ferrell, MR Weir, TC Dowling, TO Obisesan and **MD Brown**. (2006). Renin-angiotensin system genes and exercise training-induced changes in sodium excretion in hypertensive African Americans. Ethnicity and Disease. 16: 666-674. PMID: 16937603.

**Impact Factor=Not provided.**

BD Hand, SM Roth, RE Ferrell, MH. Roltsch, M Kostek, and **MD Brown**. (2006). Association between a common AMPD1 gene variant and peripheral blood flow in females. Journal of Life Sciences. 79: 1413–1418. PMID: 16707139.

**Impact Factor= 2.451.**

JM Jones, JJ Park PhD, T Dowling, D Phares, JY Park, and **MD Brown**. (2006). Role of Potassium Excretion and Percent Body Fat on Ethnic Differences in Plasma Aldosterone Levels. Ethnicity and Disease. 16(suppl 4): 10-14. PMID: 16938912.

**Impact Factor=Not provided.**

BD Hand, SD McCole, **MD Brown**, JJ. Park, RE Ferrell, A Huberty, LW Douglass, and JM Hagberg. (2006). NOS3 gene polymorphism and exercise hemodynamics in postmenopausal women. International Journal of Sports Medicine. 27: 951-958. PMID: 16761221.

**Impact Factor=2.281.**

DR Dengel, **MD Brown**, RE Ferrell, TH. Reynolds, MA Supiano. (2007). A preliminary study on the T-786C endothelial nitric oxide synthase gene and renal hemodynamics and blood pressure responses to dietary sodium. Journal of Physiological Research. 56:393-401. PMID: 16925467.

**Impact Factor= 5.139.**

JM Jones, TC Dowling, JJ Park, DA Phares, JY Park, and **MD Brown**. (2007). Differential Aerobic Exercise-Induced Changes in Plasma Aldosterone are Dependent on Baseline Levels in Prehypertensives. Experimental Physiology Translation and Integration. 92.5: 871-879. PMID: 17483200.

**Impact Factor=3.168.**

JY Park, IKG Farrance, NM. Fenty, JM Hagberg, SM Roth, H Jo, T Okazaki, SR Brant, DM Mosser, and **MD. Brown**. (2007). NFkB1 Gene Promoter Variation Implicates Shear-Induced Endothelial Nitric Oxide Synthase Gene Expression and Endothelial Function in Pre and Stage1 Hypertensives. American Journal of Physiology: Heart and Circulatory Physiology. 293: H2320-H2327. PMID: 17644577.

**Impact Factor=3.88.**

S. Attipoe, JY Park, N Fenty, D Phares, and **MD Brown**. (2008). Oxidative Stress Levels are Reduced in Postmenopausal Women with Exercise Training Regardless of Hormone Replacement Therapy Status. Journal of Women & Aging. 20: 20: 31-45. PMID: 18581699.

**S. Attipoe, Undergraduate Student.**

**Impact Factor= .805.**

TJ Ellis, N Kume, **MD Brown**, DA Phares, RE Ferrell, JM. Hagberg. (2008). Variation in the Lectin-like Oxidized LDL Receptor 1 (LOX-1) Gene is Associated with Plasma Soluble LOX-1 Levels. Experimental Physiology. 93.9: 1085-1089. PMCID: PMC2652129.

**Impact Factor= 3.168.**

DL Fearheller, **MD Brown**, JY Park, TE. Brinkley, S Basu, JM. Hagberg, RE. Ferrel, and N Fenty-Stewart. (2009). NADPH oxidase p22phox Gene Polymorphisms and Oxidative Stress Responses to Exercise Training in Pre and Stage 1 Hypertensives. Medicine and Science in Sports & Exercise. 41: 1421-1428. PMID: 19516159.

**Impact Factor= 4.106.**

KM Sturgeon, **MD Brown**, KM Diaz; TE Brinkley, TC Dowling, NM Fenty-Stewart. (2009). The Relationship of Oxidative Stress and Cholesterol with Blood Pressure Dipping Status Before and After Aerobic Exercise Training. Blood Pressure. 18: 171-179. PMID: 19544106.

**Impact Factor= 1.455.**

NM Fenty-Stewart, JY Park, SM Roth, JM Hagberg, S Basu, RE Ferrell, and **MD Brown**. (2009). Independent and Combined Influence of *AGTR1* Gene Variants and Aerobic Exercise Training on Angiotensin II and Oxidative Stress in Hypertensive Adults. Blood Pressure. 18:204-212. PMID: 19593696.

**Impact Factor= 1.455.**

TE Brinkley, NM Fenty, JY Park, DA Phares, **MD Brown**, JM Hagberg. (2009). Plasma Nitrate/Nitrite Levels are Unchanged after Long-Term Aerobic Exercise Training in Older Adults. Nitric Oxide: Biology and Chemistry. 21: 234-238. PMID: 19825427.

**Impact Factor= 2.997.**

Praveen Veerabhadrapa, Keith M. Diaz, Deborah L. Fearheller, Kathleen M. Sturgeon, Sheara Williamson, Deborah L. Crabbe, Abul Kashem, Debra Ahrensfield and **MD. Brown**. (2010). Enhanced Systolic Blood Pressure Variability in African Americans at High Risk for Cardiovascular Disease. Journal of the American Society of Hypertension. 4:197-195. PMID: 20885987.

**Impact Factor= 2.835**

DL Fearheller, KM Sturgeon, KM Diaz, P Veerabhadrapa, ST Williamson, DL Crabbe, and **MD Brown**. (2010). Association of Nitric Oxide, Renal Function, and hsCRP in Pre-hypertensive African American Women. Kidney and Blood Pressure Research. 33: 282-290. PMID: 20628261.

**Impact Factor= 1.5.**

Anderson Saranz Zago, Joon-Young Park, Nicola Fenty-Stewart, Eduardo Kokubun, **MD. Brown**. (2010). Effects of aerobic exercise on the blood pressure, oxidative stress and eNOS gene polymorphism in pre-hypertensive older people. European Journal of Applied Physiol. 110(4):825-32. PMID: 20614130.

**Impact Factor= 2.214.**

Kathleen M. Sturgeon, Praveen Veerabhadrapa, Keith M. Diaz, Deborah L. Fearheller, Sheara Williamson, Jan Kretschmar, Deborah L. Crabbe, Abul Kashem, Debra Ahrensfield and **MD Brown**. (2010). Clinical Risk Factors Demonstrate an Age-Dependent Relationship with Oxidative Stress Biomarkers in African Americans. Ethnicity and Disease. 20: 403-408. PMID: 21305829.

**Impact Factor= Not provided.**

Zago AS, Kokubun E, Fenty-Stewart N, Park JY, Attipoe S, Hagberg J, **MD. Brown**. (2010). Effect of physical activity and T-786C polymorphism in blood pressure and blood flow in the elderly. Arquivos Brasileiros de Cardiologia. 4: 510-516. PMID: 20835679.

**Impact Factor= 1.32.**



Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Sheara Williamson, Praveen Veerabhadrapa, Deborah L. Crabbe, and **MD. Brown**. (2010). Diastolic Blood Pressure Variability is Attenuated in African Americans with Mildly Impaired Renal Function. International Journal of Hypertension. 2010: 1-9. PMID: 21274440.

**Impact Factor= Not provided.**

Deborah L. Fairheller, Keith M. Diaz, Kathleen M. Sturgeon, Sheara T. Williamson, and **Michael D. Brown**. Racial Differences in the Time-Course Oxidative Stress Responses to Acute Exercise. (2011). Journal of Exercise Physiology. 14: 49-59. PMCID: PMC3118095.

**Impact Factor= 0.41.**

Deborah L. Fairheller, Joon-Young Park, Kathleen M. Sturgeon, Sheara T. Williamson, Keith M. Diaz, Praveen Veerabhadrapa, & **MD. Brown**. Racial differences in oxidative stress and inflammation: *in vitro* and *in vivo*. Clinical and Translational Science. 4: 32-37. PMID: 21348953.

**Impact Factor=2.33**

ST Williamson, **MD Brown**, S Jansen and D Varma. (2011). Eicosanoid Production Following One Bout of Exercise in African American Pre- and Stage 1 Hypertensives. Journal of Aging Research. doi:10.4061/2011/3028022011: 1-7. PMID: 21629748.

**Impact Factor= 1.53.**

Deborah L. Fairheller, Joon-Young Park, Victor Rizzo, Boa Kim, & **Michael D. Brown**. (2011). Racial Differences in the Responses to Shear Stress in Human Umbilical Vein Endothelial Cells. Journal of Vascular Health and Risk Management. 7: 425-431. PMID: 21796257.

**Impact Factor= 2.94.**

Veerabhadrapa P, Diaz KM, Kashem AM, Crabbe DL, Fairheller DL, Sturgeon KM, Williamson ST & **Brown MD**. (2011). Endothelial Dysfunction in Prehypertensive African Americans with Masked Hypertension. American Journal of Hypertension. 24: 1102-1107. PMID: 21677701.

**Impact Factor= 3.129.**

Diaz, K.M., Fairheller, D.L., Sturgeon, K.M., Williamson, S.T., & **Brown, M.D.** (2011). Oxidative Stress Response to Short Duration Bout of Submaximal Aerobic Exercise in Healthy Young Adults. International Journal of Exercise Science, 4: 247-256.

**Impact Factor=currently being calculated**

**MD Brown**, DL Fairheller, S Thakkar, P Veerabhadrapa JY Park. (2011) Racial Differences in Tumor Necrosis Factor- $\alpha$ -Induced Endothelial Microparticle and Interleukin-6 Production. Journal of Vascular Health and Risk Management. 7: 541-550. (Video abstract available: [http://www.dovepress.com/articles.php?article\\_id=8160&l=4Tz7WEYDJvc5HCkVcb8UTrvy68036](http://www.dovepress.com/articles.php?article_id=8160&l=4Tz7WEYDJvc5HCkVcb8UTrvy68036)). PMID: 21966220.

**Impact Factor= 2.94.**

Nathan T. Jenkins, Rian Q. Landers, Sunny R. Thakkar, **Michael D. Brown**, Steven J. Prior, Espen E. Spangenburg, James M. Hagberg. (2011). Endurance Exercise Prevents Postprandial Lipemia-Induced Increases in Reactive Oxygen Species in Circulating CD31<sup>+</sup> Cells. Journal of Physiology. 589(Pt 22):5539-53. PMID:21930598.

**Impact Factor= 5.139.**

Clare M. Lenhart, Alexandra Hanlon, Youjeong Kang, Brian P. Daly, **Michael D. Brown**, and Freda Patterson. (2012). Gender Disparity in Structured Physical Activity and Overall Activity Level in Adolescence: Evaluation of Youth Risk Behavior Surveillance Data. Public Health. 2012: 1-8. **Impact Factor= 1.605.**

Keith M. Diaz, Praveen Veerabhadrapa, Mohammed Kashem, Deborah L. Fairheller, Kathleen M. Sturgeon, Sheara Williamson, Deborah L. Crabbe, and **MD. Brown**. (2012). Relationship of Visit-to-Visit and Ambulatory Blood Pressure Variability to Vascular Function in African Americans. Hypertension Research. 35: 55-61. PMID: 21814215. **Impact Factor= 2.56.**

**Michael Brown** and Deborah Fairheller. (2013). Are there Race-Dependent Endothelial Cell Responses to Exercise? Exercise and Sport Science Reviews. 41(1):44-54. PMID: 23262464. **Impact Factor= 4.491.**

Dianne M. Babbitt, Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Amanda M. Perkins, Praveen Veerabhadrapa, Sheara T. Williamson, Jan Kretzschmar, Chenyi Ling, Hojun Lee, Heather Grimm, Sunny R. Thakkar, Deborah L. Crabbe, Mohammed A. Kashem, **Michael D. Brown**. (2013). Endothelial Activation Microparticles and Inflammation Status Improve with Exercise Training in African Americans. International Journal of Hypertension. 2013:1-8. PMID: 23691280 **Impact Factor= 3.806**

Keith M. Diaz, Praveen Veerabhadrapa, Mohammed A. Kashem, Sunny R. Thakkar, Deborah L. Fairheller, Kathleen M. Sturgeon, Chenyi Ling, Sheara T. Williamson, Jan Kretzschmar, Hojun Lee, Xiaoxuan Fan, Deborah L. Crabbe, and **Michael D. Brown**. (2013). Visit-to-Visit and 24-H Blood Pressure Variability: Association with endothelial and Smooth Muscle Function in African Americans. Hypertension Research. 27: 671-677. PMID: 23615389. **Impact Factor= 2.56.**

Boa Kim, Yisang Yoon, Mayra C. Santiago, **Michael D. Brown**, Joon-Young Park. Mitochondrial fission protein Drp1 plays a crucial role in myotube differentiation by regulating mitochondria-mediated apoptosis. (2014). American Journal of Physiology-Regulatory, Integrative, and Comparative Physiology. 305: R927-R938. PMID: 23904108. **Impact Factor= 3.34.**

Jan Kretzschmar, Dianne M. Babbitt, Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Amanda M. Perkins, Praveen Veerabhadrapa, Sheara T. Williamson, Chenyi Ling, Hojun Lee, Heather Grimm, Sunny R. Thakkar, Deborah L. Crabbe, Mohammed A. Kashem, and **Michael D. Brown**. (2014). A standardized exercise intervention differentially affects premenopausal and postmenopausal African-American women. Menopause. 21(6): 579-584. PMID: 24193297. **Impact Factor= 3.163.**

Fairheller, D.L.; Diaz, K.M.; Kashem, M.A.; Thakkar, S.R.; Veerabhadrapa, P.; Sturgeon, K.S.; Ling, C.; Williamson, S.T.; Kretzschmar, J.; Lee, H.; Grimm, H.; Babbitt, D.M.; Vin, C.; Fan, X.; Crabbe, D.L.; **Brown, M.D.** (2014). Effects of moderate aerobic exercise training on vascular health and blood pressure in African Americans. Journal of Clinical Hypertension. 7: 504-510. PMID: 24779748 **Impact Factor= 2.364.**

Prendergast HM, Dudley S, **Brown M**, Daviglius M, Kane J, Bradshaw Bunney E, Marcucci J, Sanyaolu R. (2014). Antihypertensive Medications and Diastolic Dysfunction Progression in an African American Population. High Blood Press Cardiovascular Prevention. 4: 269-274. PMID: 24972662. **Impact Factor= 1.16**

Chenyi Ling, Keith M. Diaz, Jan Kretzschmar, Deborah L. Fearheller, Kathleen M. Sturgeon, Amanda Perkins, Praveen Veerabhadrapa, Sheara T. Williamson, Hojun Lee, Heather Grimm, Dianne M. Babbitt, **Michael D. Brown**. (2014). Chronic Aerobic Exercise Training Improves Blood Pressure Dipping Status in African American Non-Dippers. Blood Pressure Monitoring Journal. 19(6): 353-358. PMID: 25100263.

**Impact Factor= 1.84**

Keith M Diaz, Paul Muntner, Emily B Levitan, **Michael D Brown**, Dianne M Babbitt, Daichi Shimbo. (2014). The Effect of Weight Loss and Salt Reduction on Visit-To-Visit Blood Pressure Variability among Overweight Adults: Multicenter Randomized Controlled Trial. Journal of Hypertension. 32(4), 840-848. PMID: 24366034.

**Impact Factor= 4.021.**

Keith M. Diaz, Praveen Veerabhadrapa, **Michael D. Brown**, Matthew C. Whited, Patricia M. Dubbert, DeMarc A. Hickson. (2014). Prevalence and Clinical Significance of Masked Hypertension in a Population-Based Sample of African Americans: The Jackson Heart Study. American Journal of Hypertension. PMID: 25499058

**Impact Factor= 3.1.**

JS Kim, B Kim B, H Lee H, S Thakkar S, DM Babbitt, S Eguchi, **MD Brown**, JY Park. (2015) Shear stress-induced mitochondrial biogenesis decreases the release of microparticles from endothelial cells. Am J Physiol Heart Circ Physiol. 309(3):H425-433. PMID: 26024684

**Impact Factor= 3.838.**

Dianne M. Babbitt, Ji-Seok Kim, Steven J. Forrester, **Michael D. Brown**, Joon-Young Park. (2015) Effect of Interleukin-10 and Laminar Shear Stress on Endothelial Nitric Oxide Synthase and Nitric Oxide in African American Human Umbilical Vein Endothelial Cells. Ethnicity & Disease. 25(4): 413-418. PMID: 26674844

**Impact Factor= 1.00.**

Abeer M Mahmoud, **Michael D Brown**, Shane A Phillips, Jacob M Haus. (2015). Skeletal Muscle Microvascular Function: A Counterbalance of Insulin Action. Microcirculation. 22(5):327-47. PMID: 25904196

**Impact Factor= 2.263.**

Abeer M. Mahmoud, Mary R. Szczurek, Brian K. Blackburn, Jacob T. Mey, Zhenlong Chen, Austin T. Robinson, Jing-Tan Bian, Richard D. Minshall, **Michael D. Brown**, John P. Kirwan, Shane A. Phillips, Jacob M. Haus.(2016). Hyperinsulinemia Augments Endothelin-1 Release and Impairs Vasodilation of Human Skeletal Muscle Arterioles. Physiological Reports. 4(16):1-15. PMID: 27796268.

**Impact Factor= 1.61.**

Kretzschmar J, Babbitt DM, Diaz KM, Fearheller DL, Sturgeon KM, Perkins-Ball AM, Williamson ST, Ling C, Grimm H, **Brown MD**. (2017). Differential Response to Exercise in African Americans with High Levels of Inflammation. Ethnicity Disease. 27(3):233-240. PMID: 28811734.  
**Impact Factor= 1.11.**

Babbitt DM, Perkins AM, Diaz KM, Fearheller DL, Sturgeon KM, Veerabhadrapa P, Williamson ST, Kretzschmar J, Ling C, Lee H, Grim H, **Brown MD**. (2017). Adherence to Exercise Prescription and Improvements in the Clinical and Vascular Health of African Americans. Int. J. Exercise Science. 10(2):246-257. PMID: 28344738  
**Impact Factor= 2.7.**

Austin T. Robinson, Varadarajan Sudhahar, Ibra S. Fancher, Jing Tan Bian, Marc D. Cook, Mohamed M. Ali, Masuko Ushio-Fukai, **Michael D. Brown**, Tohru Fukai, and Shane A. Phillips. (2017). Aerobic Exercise Reduces Oxidative Stress Produced by Acute High Intraluminal Pressure in Adipose Microvasculature. American Journal of Physiology. 312(5): 896-906. PMID: 28235790.  
**Impact Factor= 3.348.**

Prendergast HM, Del Rios M, Petzel-Gimbar R, Garside D, Heinert S, Escobar-Schulz S, Kotini-Shah P, **Brown MD**, Chen J, Colla J, Fitzgibbon M, Durazo-Arvizu RA, Daviglius M. (2018). A hypertension emergency department intervention aimed at decreasing disparities: Design of a randomized clinical trial. Contemporary Clinical Trials. 64:1-7. PMID: 29128648  
**Impact Factor= 1.14.**

### ***Invited Reviews***

JM Hagberg, JJ Park, and **MD Brown**. (2000). The role of exercise training in the treatment of hypertension: an update. Sports Medicine. 30(3): 193-206. PMID: 10999423.  
**Impact Factor=5.15.**

JM Hagberg and **MD Brown**. (1994). Does exercise training play a role in the treatment of essential hypertension? Journal of Cardiovascular Risk (In 2003 became the European J of Cardiovascular Prevention & Rehabilitation). 2(4): 296-302. PMID: 8536146.  
**Impact Factor= 2.633.**

Robert Carter III, Samuel N. Cheuvront, C. Keith Harrison, Larry Proctor, Kathryn H. Myburgh, **Michael D. Brown**, and Robert M. Malina. (2010). Success, Race and Athletic Performance: Biology, Belief or Environment? Journal for the Study of Sports and Athletes in Education. 4(3): 207-229.  
**Impact Factor= Not provided.**

SA Phillips, AM Mahmoud , **MD Brown**, JM Haus. (2014). Exercise interventions and peripheral arterial function: implications for cardio-metabolic disease. Progress Cardiovascular Disease. 57(5): 521-534.  
**Impact Factor= 2.418**

### ***Manuscripts in Press***

Hojun Lee, Kijeong Kim, Boa Kim, Junchul Shin, Sudarsan Rajan, Xiongwen Chen, **Michael D Brown**, Sukho Lee, and Joon-Young Park. A cellular mechanism of muscle memory facilitates mitochondrial remodeling following resistance training. Journal of Physiology.

## ***Manuscripts in Review***

Marc D. Cook, Chenyi Ling, Heather Grimm, Adelola Adeyemo, and **Michael D. Brown**. MMP-2 dysfunction in African Americans Endothelial Cells: A Potential Biomarker of Hypertension Risk. Vascular Health and Risk Management.

Chenyi Ling, Marc Cook, Heather Grimm, **Michael D. Brown**. Racial differences in CRP-induced responses in endothelial cells: effects on eNOS, NO, adhesion molecules and ET-1. American Journal of Physiology Cell Physiology.

Ahmed Khocht, Thomas Rogers, Malvin Janal, **Michael Brown**. Gingival Fluid Inflammatory Biomarkers and Hypertension in African Americans. JDR Clinical and Translational Research.

## ***Talks, Abstracts, and other Professional Papers Presented. [The first author is the primary author. The last author is the senior author]***

### i. Refereed Conference Presentations

#### ***National***

1. **MD Brown**, N Taylor-Tolbert, SD McCole, DR Dengel, JM Hagberg. 1994. Systolic blood pressure is reduced following a single bout of exercise. Medicine and Science in Sports & Exercise. 26: S163.
2. **MD Brown**, GE Moore, MT Korytkowski, JM Hagberg. 1995. Insulin resistance syndrome is modified in hypertensive African-Americans by short-term exercise training. Medicine and Science in Sports & Exercise. 28: S152.
3. DR Dengel, RV Hogikyan, **MD Brown**, SG Glickman, MA Supiano. 1996. Differential effect of dietary salt intake on insulin sensitivity. Journal of Investigative Medicine. 44(3): 336A.
4. DR Dengel, RV Hogikyan, **MD Brown**, SG Glickman, MA Supiano. 1996. Dietary salt restriction does not improve insulin sensitivity in hypertensives regardless of salt-sensitivity status. Journal of Investigative Medicine. 44(7): 370A.
5. SG Glickman, DR Dengel, **MD Brown**, MA Supiano, RV Hogikyan. 1996. Salt induced changes in glomerular filtration fraction predict changes in insulin sensitivity in elderly hypertensives. Integrative Biology of Exercise Meetings.
6. SD McCole, **MD Brown**, GE Moore, JM Zumuda, J Cwynar, JM Hagberg. 1997. Maximal exercise cardiovascular hemodynamics in postmenopausal women are independent of hormone replacement therapy. Medicine and Science in Sports & Exercise. 29: S11.
7. DR Dengel, RV Hogikyan, **MD Brown**, SG Glickman, MA Supiano. 1997. Dietary salt intake has no effect on insulin sensitivity in hypertensives regardless of salt-sensitivity status. Medicine and Science in Sports & Exercise. 29: S19.
8. **MD Brown**, DR Dengel, RV Hogikyan, MA Supiano. 1997. Salt-resistant hypertension is not associated with higher sympathetic nervous system activity. Journal of Investigative Medicine. 45 (3): 281A.

9. SG Glickman, DR Dengel, **MD Brown**, RV Hogikyan, MA Supiano. 1997. Abdominal obesity determined by dual energy x-ray absorptiometry is associated with insulin sensitivity. Journal of Investigative Medicine. 45 (7): 343A.
10. **MD Brown**, DR Dengel, RV Hogikyan, MA Supiano. 1997. Exercise training in older hypertensives is associated with reduced sympathetic nervous system activity. Journal of Investigative Medicine. 45 (7): 326A.
11. **MD Brown**, DR Dengel, RV Hogikyan, MA Supiano. 1997. Nitric oxide biomarkers are associated with the blood pressure lowering effect of dietary sodium restriction in older hypertensives. Circulation. 96(8): I539-I540.
13. RJ Cleland, **MD Brown**, DR Dengel, MA Supiano. 1998. Dietary sodium induced increase in renal function is associated with an increase in nitrite levels. Medicine and Science in Sports & Exercise. 30(5): S62.
14. **MD Brown**, M Srinivasan, RV Hogikyan, DR Dengel, SG Glickman, A Galecki, MA Supiano. 1998. Nitric oxide biomarkers increase during exercise-induced vasodilation in the forearm. Medicine and Science in Sports & Exercise. 30(5): S212.
15. **MD Brown**, DR Dengel, RV Hogikyan, MA Supiano. 1998. Relationship between blood pressure and sympathetic nervous system activity following exercise training in older hypertensives. Journal of American Geriatric Society. 46: S106.
16. AR Woznick, SG Glickman, DR Dengel, **MD Brown**, RV Hogikyan, MA Supiano. 1998. Central adiposity assessed by DEXA provides a gender-independent predictor of insulin sensitivity in older hypertensives. Journal of American Geriatric Society. 46: S16.
17. DR Dengel, **MD Brown**, RV Hogikyan, MA Supiano. 1998. Improvement in renal function in older hypertensives is associated with increase in maximal aerobic capacity. Medicine and Science in Sports & Exercise. 30(5): S160.
18. **MD Brown**, SD McCole, GE Moore, MT Korytkowski, JM Hagberg. 1999. Maximal oxygen consumption and body composition play a greater role in determining insulin sensitivity than hormone replacement therapy in postmenopausal women. Medicine and Science in Sports & Exercise. 31(5): S379.
19. SD McCole, JM Hagberg, **MD Brown**, GE Moore, RE Ferrell. 2000. AGT genotypes are not associated with VO<sub>2</sub>max in postmenopausal women. Federation of American Societies for Experimental Biology, Program Addendum, p8.
20. DR Dengel, **MD Brown**, R Cleland, RV Hogikyan, MA Supiano. 2000. Role of renin-angiotensin-aldosterone system in sodium sensitivity in older hypertensives. FASEB J. 14: A369.
21. **MD Brown**, JJ Park, DR Dengel, RV Hogikyan, MA Supiano. 2000. The role of ACE and eNOS gene polymorphisms on blood pressure sensitivity to sodium in older hypertensives. FASEB J. 14: A57.
22. JJ Park, **MD Brown**, DR Dengel, MA Supiano. 2001. Salt-sensitivity and exercise training-induced blood pressure reduction in older hypertensives. American Journal of Hypertension. 14(4): 142A.

23. JJ Johnson, JJ Park, JM Hagberg, RE Ferrell, SD McCole, GE Moore, **MD Brown**. 2001. ACE gene polymorphism and exercise training-induced changes in sodium excretion in African Americans. Medicine and Science in Sports & Exercise. 33(5): S322.
24. JJ. Park, **MD Brown**, JM Hagberg, RE Ferrell, DA Phares, EP Weiss, D Vizcaino. 2001. Effects of ACE and APO E gene polymorphisms on exercise training-induced changes in nitric oxide metabolites. Medicine and Science in Sports & Exercise. 33(5): S322.
25. TH Reynolds, **MD Brown**, MA Supiano, DR Dengel. 2001. Aerobic exercise training improves insulin sensitivity independent of plasma TNF-alpha levels in older hypertensives. Medicine and Science in Sports & Exercise. 33(5): S3.
26. EP Weiss, **MD Brown**, AR Shuldiner, RE Ferrell, JM Zmuda, SD McCole, GE Moore, JM Hagberg. 2001. FABP2 genotype is associated with insulin sensitivity in older women. Medicine and Science in Sports & Exercise. 33(5): S3.
27. DA Phares, SD McCole, AR Shuldiner, **MD Brown**, GE Moore, RE Ferrell, KR Wilund, JM Hagberg. 2001.  $\beta_2$ - and  $\beta_2$  -adrenergic receptor polymorphisms and exercise hemodynamics in postmenopausal women. Medicine and Science in Sports & Exercise. 33(5): S322.
28. SD McCole, **MD Brown**, GE Moore, RE Ferrell, KR Wilund, JM Hagberg. 2001. Angiotensinogen M235T polymorphism and sub-maximal exercise hemodynamics in postmenopausal women. Medicine and Science in Sports & Exercise. 33(5): S322.
29. DR Dengel, **MD Brown**, RE Ferrell, TH Reynolds, MA Supiano. 2002. ACE Gene polymorphisms are associated with exercise-induced improvements in insulin sensitivity in older hypertensives. American Diabetes Association Conference on Understanding the Metabolic Syndrome: Effect on Diabetes and Cardiovascular Disease, Medicine and Science in Sports & Exercise. 34(5): S131.
30. L Gabel, **MD Brown**, RE Ferrell, MT Korytkowski, JM Zmuda , SD McCole, JM Hagberg. 2002. Vitamin D receptor genotype and insulin sensitivity in postmenopausal women of various physical activity levels. Medicine and Science in Sports & Exercise. 33(5): S131.
31. JM. Jones, JJ Johnson, MR Weir, TC Dowling, D Vizcaino, JJ Park, T Obisesan, BD Hand, **MD Brown**. Effects Of Exercise On The Relationship Between Urinary Endothelin-1 and Sodium Excretion In Hypertensive African Americans. International Society on Hypertension in Blacks. Miami, FL. 6/8/02-6/12/02.
32. D Vizcaino, TC Dowling, JJ Johnson, JM Jones, JJ Park, BD Hand, **MD Brown**. 2002. Effects of short-term exercise training on renal hemodynamics in hypertensive African Americans. Medicine and Science in Sports & Exercise. 33(5): S115.
33. BD Hand, JJ Park, JJ Johnson, D Vizcaino, JM Jones, RE Ferrell, **MD Brown**. 2002. Effects of eNOS gene polymorphism on 24-hour urinary nitric oxide metabolite levels after acute exercise. Medicine and Science in Sports & Exercise. 33(5): S189.
34. JM Jones, RE Ferrell, JJ Johnson, JJ Park, T Obisesan, BD Hand, **MD Brown**. 2002. Genetic effects of sodium excretion in hypertensive African Americans: effects of short-term exercise training. Medicine and Science in Sports & Exercise. 33(5): S190.

35. J Brandauer, MH Roltsch, **MD Brown**, BD Hand, MC Kostek, GJ Sheng, JM Hagberg. 2002. Relationship between ACE genotype and forearm blood flow response during reactive hyperemia. Medicine and Science in Sports & Exercise. 33(5): S190.
36. MH Roltsch, **MD Brown**, BD Hand, M Kostek, A Huberty, RE Ferrell, JM Hagberg. 2002. No association between ACE insertion/deletion polymorphism and maximal exercise cardiovascular hemodynamics in young women. Medicine and Science in Sports & Exercise. 33(5): S7.
37. SM Roth, SJ Prior, DA Phares, **MD Brown**, JM Hagberg, RE Ferrell. 2002. Sequence variation in hypoxia-induced factor alpha (HIF1). American Society of Human Genetics, Annual Meeting. Baltimore, MD. American Journal of Human Genetics. 71 (4 supp.): 350.
38. BD Hand, MH Roltsch, RE Ferrell, SA Data, JJ Park, MD Kostek, **MD Brown**. Interactive effects of eNOS T-786C gene polymorphism and cardiovascular fitness on flow-mediated dilation in females. Medicine and Science in Sports & Exercise. 35 (5): S378.
39. DR Dengel, **MD Brown**, RE Ferrell, TH. Reynolds, MA Supiano. 2003. The renal hemodynamic response to dietary sodium is associated with the eNOS gene, American College of Sports Medicine National Conference.
40. **MD Brown**, MR Weir, TC Dowling, RE Ferrell, JJ Johnson, D Vizcaino, JM Jones, JJ Park, BD Hand, TO Obisesan. 2003. ACE gene polymorphism is associated with exercise training-induced changes in Na<sup>+</sup> excretion in African American hypertensives. American Journal of Hypertension. 16 (5): 78A.
41. JM Jones, D Vizcaino, TC Dowling, MR Weir, JJ Johnson, JJ Park, BD hand, TO Obisesan, **MD Brown**. 2003. Baseline serum creatinine levels predict renal hemodynamic response to short-term endurance exercise training in African American hypertensives. American Journal of Hypertension. 16 (5): 95A.
42. C Albright, JM Jones, JJ Park, JM. Hagberg, **MD Brown**. 2004. Systemic Nitric Oxide Production and 24-Hr Blood Pressure Relationship Following Aerobic Exercise in African-American Hypertensives. Medicine and Science in Sports & Exercise. 36 (5): S240.
43. JY Park, JJ Park, R E. Ferrell, DA. Phares, JM. Hagberg, **MD. Brown**. 2004 NADPH oxidase p22phox sequence variants and cardiovascular fitness level correspond to modulation of systemic oxidative stress by exercise training, Integrative Biology of Exercise Meetings.
44. JM Jones, TC Dowling, DA Phares, **MD Brown**. 2004. Six Months of Aerobic Exercise Training Reduces Plasma Aldosterone Levels in Caucasian Prehypertensives but Not in Prehypertensives of African Descent, Integrative Biology of Exercise Meetings.
45. NM Fenty, JM Jones, DA Phares, **MD Brown**. 2004. Influence of Renal Function on Blood Pressure Changes with Exercise Training. The Physiologist, 47(4), 317.
46. JM Jones, SM Roth, HM Hagberg, DA Phares, **MD Brown**. 2005. Influence of CYP11B2 -344C/T polymorphism on plasma aldosterone, sodium excretion, and blood pressure responses to aerobic exercise training in middle-aged to older prehypertensives. American Society of Hypertension.
47. SJ Prior, CM Paton, DA Phares, **MD Brown**, JM Hagberg, SM Roth. 2005. DNA sequence variation in the VEGF gene and plasma VEGF protein levels. American College of Sports Medicine.



48. JY Park IK Farrance, H Jo, SR Brant, SM Roth, JM Hagberg, **MD Brown**. 2006. Promoter polymorphism regulates NFkB1 Gene Transactivity in Human Endothelial Cells Under Laminar Shear Stress. Medicine and Science in Sports & Exercise, 38(5), S3.
49. NM Fenty, SM Roth, M Bathula, JY. Park, **MD. Brown**. 2006. AT1R A1166C polymorphism is associated with plasma angiotensin II levels, but not ambulatory blood pressure responses to aerobic exercise. *Journal of Clinical Hypertension*, 8(5), Supplement A.
50. JY Park, NM. Fenty, SM. Roth, **MD Brown**. 2006. iNOS (CCTTT)<sub>n</sub> Pentanucleotide Repeats are Associated with Glomerular Filtration Rate in Prehypertensives. American Society of Hypertension.
51. NM Fenty, TJ Ellis, SM Roth, M Hickey, **MD. Brown**. 2007. Influence of the ECE1b C-338A polymorphism on plasma levels of ET-1, NO<sub>x</sub>, and blood pressure. *Experimental Biology*, 2007.
52. AS Zago, NM Fenty, JJ Park, JY Park, RE Ferrell, TJ Ellis, S Attipoe, **MD Brown**. 2007. Influence of physical activity and the T-786C eNOS polymorphism on nitric oxide concentrations and superoxide dismutase activity. *Experimental Biology*.
53. TJ Ellis, NM Fenty, JY Park, DA Phares, **MD. Brown**, JM Hagberg. 2007. Changes in Reactive Hyperemia and Plasma Ox-LDL Levels with Aerobic Exercise Training are Inversely Related. American College of Sports Medicine.
54. Sturgeon K., **Brown M.**, Basu S., Fenty-Stewart NM. 2007. Relationship of F<sub>2</sub>Isoprostanes to Changes in Blood Pressure Dipping/Nondipping Status After Exercise Training. Mid-Atlantic American College of Sports Medicine.
55. NM Fenty-Stewart, JY Park, SM Roth, JM Hagberg, S Basu, RE Ferrell, **MD. Brown**. (2008). Influence of *AGTR1* Gene Variants and Aerobic Exercise Training On Angiotensin II And Oxidative Stress. American College of Sports Medicine.
56. Deborah L. Fairheller, Kathleen M. Sturgeon, Keith M. Diaz, Dong Xin, Sheara Williamson, Praveen Veerabhadrapa, & **Michael D. Brown**. (2009). Relationship Between Nitric Oxide Levels, Ambulatory Blood Pressure, And Renal Function In African Americans. 63<sup>rd</sup> American Heart Association Council for High Blood Pressure Research Conference, Chicago, IL.
57. Praveen Veerabhadrapa, Deborah Crabbe, Keith M. Diaz, Garima Sharma, Valaine Hewitt, Deborah L. Fairheller, Kathleen M. Sturgeon, Sheara T. Williamson, Debra Ahrensfield, Abul Kashem, **Michael D. Brown**. 2010. Early Diastolic Dysfunction Correlates With Lower Aerobic Capacity in Pre-Hypertensive African Americans. Annual Meeting and inaugural World Congress of Exercise is Medicine of the American College of Sports Medicine, Baltimore, Maryland, June 1-5.
58. Deborah L. Fairheller, Keith M. Diaz, Kathleen M. Sturgeon, Sheara T. Williamson, **Michael D. Brown**. 2010. Differentiating Racial Differences in Time-Course Oxidative Stress Responses to Acute Exercise. Annual Meeting and inaugural World Congress of Exercise is Medicine of the American College of Sports Medicine, Baltimore, Maryland, June 1-5.
59. Sheara Williamson, Deepti Varma, **Michael Brown**, Susan Jansen. (2010). Aerobic Capacity Correlates with Prostacyclin Release in Hypertensive African Americans. Annual Meeting and inaugural World Congress of Exercise is Medicine of the American College of Sports Medicine, Baltimore, Maryland.

60. Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Sheara Williamson, Praveen Veerabhadrapa, Deborah Crabbe, & **Michael D. Brown**. (2010). Oxidative Stress and Inflammatory Biomarkers in Pre-hypertensive and Normotensive African Americans. American College of Cardiology, Atlanta, GA.
61. Deborah L Feairheller, Joon-Young Park, Kathleen M Sturgeon<sup>1</sup>, Boa Kim, Sheara T Williamson, Keith M Diaz, **Michael D Brown**. Differentiating racial differences in oxidative stress levels: in vitro and in vivo. (2010). Experimental Biology, Anaheim, CA.
62. Keith M. Diaz, Deborah L. Feairheller, Kathleen M. Sturgeon, Sheara T. Williamson, & **Michael D. Brown**. (2010) Effects of training status on time course oxidative stress response to a sub-maximal exercise test. Annual Meeting and inaugural World Congress of Exercise is Medicine of the American College of Sports Medicine, Baltimore, Maryland.
63. Kathleen M. Sturgeon, Deborah L. Feairheller, Keith M. Diaz, Sheara Williamson, Praveen Veerabhadrapa, Jan Kretzschmar, & **Michael D. Brown**. 2009. Relationship of Oxidant Status to Acute Aerobic Exercise Recovery Blood Pressure in African Americans. Annual Meeting and inaugural World Congress of Exercise is Medicine of the American College of Sports Medicine, Baltimore, Maryland.
64. Praveen Veerabhadrapa, Keith M. Diaz, Kathleen M Sturgeon, Deborah L Feairheller, Sheara T Williamson, Deborah Crabbe, Abul Kashem, Debra Ahrensfield & **Michael D Brown**. 24-hour and Awake Blood Pressure Variability are Associated with hs-CRP in Prehypertensive African Americans. Society of Hypertension Annual Meeting, May 2010. New York, NY.
65. Praveen Veerabhadrapa, Keith M. Diaz, Deborah Crabbe, Garima Sharma, Deborah L. Feairheller, Kathleen M. Sturgeon, Sheara Williamson, Sunny Thakkar, Jan Kretzschmar, Abul Kashem & **Michael D. Brown**. hs-CRP is Associated with Abnormal LV Filling Pressure in African Americans with Preserved Systolic Function. International Society of Hypertension in Blacks, October 2010, Chicago, IL,
66. Joon-Young Park, Boa Kim, **Michael D. Brown**, Ji-Seok Kim. Effects of Oxygen Tension in Shear Stress-Induced eNOS Activation in Human Endothelial Cells. Integrative Physiology of Exercise. September 2010, Miami, Florida.
67. Praveen Veerabhadrapa, Keith M. Diaz, Kathleen M Sturgeon, Deborah L. Feairheller, Sheara T. Williamson, Deborah Crabbe, Abul Kashem, & **Michael D. Brown**. Endothelial Dysfunction in African Americans with Masked Hypertension. International Society of Hypertension, September 2010, Vancouver.
68. Praveen Veerabhadrapa, Keith M. Diaz, Deborah L. Feairheller, Kathleen M. Sturgeon, Sheara T. Williamson, Deborah L. Crabbe, Jan Kretzschmar & **Michael D. Brown**. Masked hypertension in prehypertensive African Americans after dietary stabilization. American Heart Association Scientific Sessions, November 2010, Chicago, IL.
69. **Brown, M.D.**, Fairheller, D.L., Veerabhadrapa, P., Park, J.Y. Racial Differences in Tumor Necrosis Factor-alpha-Induced Endothelial Microparticle and Interleukin-6 Production. American Heart Association; High Blood Pressure Research Scientific Sessions; Washington DC, October 2010.

70. Abul Kashem, Praveen Veerabhadrapa, Deb Fairheller, Keith Diaz, Sheara Williamson, Mohamad Alkhouli, Chirdeep Patel, Nabeel Memon, Debbie Ahrensfield, Deborah Crabbe, Anthony Eubanks, **Michael Brown**. Effect of Pre-hypertension on Endothelial function and Intima Media Thickness of the Carotid Artery in African Americans. American College of Cardiology 60<sup>th</sup> Annual Scientific Sessions 2011.
71. Diaz, K.M., Veerabhadrapa, P., Kashem, M.A., Fairheller, D.L., Strugeron, K.M., Williamson, S.T., Thakkar, S., Crabbe, D.L., Kretzschmar, J., & **Brown, M.D.** Increased Blood Pressure Variability in African Americans with Endothelial Dysfunction. Presented at American Heart Association Conference; NHLBI Cardiovascular Research Supplement Awardee Session; Chicago, November 2010.
72. Katie, Sturgeon, Joon Young Park, Boa Kim, **Michael Brown**. Laminar Shear Stress Pre-Conditioning Restores VEGFR2 Activation Following an Oxidant Challenge in Endothelial Cells. Experimental Biology Meetings, Washington D.C. April, 2011.
73. Deborah Fairheller, Joon Young Park, Boa Kim, **Michael Brown**. Effects of Laminar Shear Stress on Race-dependent Oxidative Stress Responses in Human Umbilical Vein Endothelial Cells. Experimental Biology Meetings, Washington, DC, April, 2011.
74. Sturgeon K., Mergaman R., Fairheller D., Diaz K., Veerabhadrapa P., Williamson S., and **Brown MD**. Dietary Magnesium Levels Below the Daily Recommended Intake are Associated with Higher Cholesterol Levels in Pre-hypertensive African Americans. American Heart Association Council on Nutrition, Physical Activity, and Metabolism Meeting, Atlanta, GA, 2011.
75. Deborah L. Fairheller, Kathleen M. Sturgeon, Boa Kim, Keith M. Diaz, Sheara T. Williamson, Praveen Veerabhadrapa, Jan Kretzschmar, Joon-Young Park, & **Michael D. Brown**. Translational Approach to Understanding Endothelial Adaptations to Exercise. Annual Meeting and of the American College of Sports Medicine, Denver, CO, May, 2011.
76. Charmie G. Vin, Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Sheara T. Williamson, Praveen Veerabhadrapa, Deborah L. Crabbe, Jan Kretzschmar & **Michael D. Brown**. Comparison Of Changes In Fasting Glucose Levels After Aerobic Exercise Training In Pre- And Post-menopausal African American Women. Annual Meeting and of the American College of Sports Medicine, Denver, CO, May 2011.
77. Jan Kretzschmar, Deborah L. Fairheller, Joon Y. Park, Boa Kim, Kathleen Sturgeon, Keith M. Diaz, Sheara T. Williamson, Praveen Veerabhadrapa, Chenyi Ling, **Michael D. Brown**. In Vitro Shear Stress Responses of Endothelin-1 in African American and Caucasian HUVECs. Annual Meeting and of the American College of Sports Medicine, Denver, CO, May 2011.
78. Boa Kim, Ji-Seok Kim, Deborah Fairheller, Katie Sturgeon, **Michael Brown** and Joon-Young Park. Effects of Laminar Shear Stress on Mitochondrial Biogenesis in Human Umbilical Vein Endothelial Cells, Annual Meeting and of the American College of Sports Medicine, Denver, CO, 2011.
79. Kathleen Sturgeon, Deborah Fairheller, Boa Kim, Joon-Young Park, & **Michael Brown**. Endothelial Nitric Oxide Synthase Activation: Laminar Shear Stress vs. Low Oxidant Conditions. Annual Meeting and of the American College of Sports Medicine, Denver, CO, 2011.

80. Sunny Thakkar, Keith M. Diaz, Deborah L. Fairheller, Kathleen M. Sturgeon, Praveen Veerabhadrapa, Sheara T. Williamson, Deborah L. Crabbe, Jan Kretzschmar, & **Michael D. Brown**. Aerobic Exercise Training Decreases Circulating Endothelial Microparticles in Female African Americans. Annual Meeting and of the American College of Sports Medicine, Denver, CO, May, 2011.
81. Diaz, K.M., Fairheller, D.L., Sturgeon, K.S., Veerabhadrapa, P., Williamson, S., Kretzschmar, J., & **Brown, M.D.** Aerobic Exercise Training Improves Renal Function in African Americans. Presented at the American Society of Hypertension Conference; New York, NY, May 2011.
82. Williamson, S.T., Fairheller, D.L., Diaz, K.M., Sturgeon, K.M., Veerabhadrapa, P., Varma, D., **Brown, M.D.**, & Jansen, S. Aerobic Capacity Correlates with Urinary Thromboxane Concentration in Pre-Hypertensive African Americans. *Journal of Clinical Hypertension*, 12, Supplement A, 2010. Presented at American Society of Hypertension Annual Scientific Meeting; New York, NY, May 2010.
83. Williamson, S., Fairheller, D.L., Diaz, K.M., Sturgeon, K.M., Veerabhadrapa, P., Kretzschmar, J., & **Brown, M.D.** Aerobic Exercise Training Improves Endothelial Dysfunction in Pre-Hypertensive African Americans. Presented at the American Society of Hypertension Annual Scientific Meeting, New York, NY, May 2011.
84. Fullwood, **M.D.**, **Brown, M.D.**, Sturgeon, K.M., Williamson, S.T., Veerabhadrapa, P., Kretzschmar, J., Diaz, K.M., & Fairheller, D.L. Effects of Exercise Training on Indices of Endothelial Status in African Americans. Presented at American College of Sports Medicine Annual Meeting, Denver, CO, May, 2011.
85. Amanda M. Perkins, Kathleen M. Sturgeon, Deborah L. Fairheller, Michael L. Sachs, **Michael D. Brown**. The Development of F.L.E.A.T. – Adherence Coaching for African Americans Enrolled in a 6-month Exercise Intervention. Presented at American College of Sports Medicine Annual Meeting, Denver, CO, May, 2011.
86. Williamson, S.T., Fairheller, D.L., Diaz, K., Sturgeon, K.M., Veerabhadrapa, P., Kretzschmar, J., & **Brown, M.D.** Endothelial Dysfunction is Associated with Aerobic Capacity in Prehypertensive African Americans. E-Conference, 2010.
87. Praveen Veerabhadrapa, Keith M. Diaz, Sheara T. Williamson, Deborah L. Fairheller, Kathleen M. Sturgeon, & **Michael D. Brown** Clinical Blood Pressure Phenotypes and low grade systemic inflammation in African Americans. American Heart Association High Blood Pressure Research Council Conference, Orlando, FL, September 2011.
88. Jan Kretzschmar, Deborah L. Fairheller, Boa Kim, Chenyi Ling, Joon Y. Park & **Michael D. Brown**. Exercise-like Levels of Shear Stress Modulate the Vasomotor Control Mediators Nitric Oxide and Endothelin-1. American Heart Association High Blood Pressure Research Council Scientific Sessions, Orlando, FL, September 2011.
89. Thakkar, S.R., Diaz, K.M., Fairheller, D.L., Sturgeon, K.M., Williamson, S.T., Kim, B., Park, J.Y., Kretzschmar, J., Ling, C., Crabbe, D.L., **Brown, M.D.** Aerobic Exercise Training Decreases Circulating Endothelial Microparticles in African Americans by Chronic Laminar Shear Stress: In Vivo and In Vitro Study. American Heart Association's High Blood Pressure Research Council Scientific Sessions, Orlando, FL, September 2011.

90. Jan Kretzschmar, Deborah Crabbe, Deborah L. Feairheller, Kathleen Sturgeon, Keith M. Diaz, Sheara T. Williamson, Praveen Veerabhadrapa, Chenyi Ling, Amanda Perkins, Cassandra McGlenn, Olivia Menardy, **Michael D. Brown**. Aerobic Exercise Training Improves Heart Rate Recovery Activity in Sedentary African Americans with Abnormal Diastolic Function. American College of Sports Medicine, San Francisco, CA, May 2012.
91. Keith M. Diaz, Deborah L. Feairheller, Kathleen M. Sturgeon, Sheara T. Williamson, Praveen Veerabhadrapa, Jan Kretzschmar, Amanda Perkins, Chenyi Ling, Deborah L. Crabbe, **Michael D. Brown**. The Effects of Aerobic Exercise Training on Visit-to-Visit and Ambulatory Blood Pressure Variability in Non-Hypertensive and Hypertensive African Americans, American Heart Association's Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Epidemiology and Prevention Council Scientific Sessions, San Diego, CA, 2012.
92. **Brown MD, Moderator**- Thematic Poster session, Diabetes. American Heart Association's Nutrition, Physical Activity and Metabolism/Cardiovascular Disease Epidemiology and Prevention Council Scientific Sessions, San Diego, CA, 2012.
93. Heather Grimm, Chenyi Ling, Jan Kretzschmar, **Michael D. Brown**. Race Dependent Effects of C Reactive Protein on the Vasomotor Modulators ET1 and NO in HUVECs. American Heart Association High Blood Pressure Research Council Scientific Sessions, Washington, DC September 2012.
94. Jan Kretzschmar, Deborah L. Feairheller, Kathleen Sturgeon, Keith M. Diaz, Sheara T. Williamson, Praveen Veerabhadrapa, Chenyi Ling, Amanda Perkins, Heather Grimm, Hojun Lee, Dianne Babbitt, Deborah L. Crabbe, Abul M. Kashem, **Michael D. Brown**. Effects Of Aerobic Exercise Training On C-Reactive Protein Levels In Normotensives Versus Non-Normotensives. American Heart Association High Blood Pressure Research Council Scientific Sessions, Washington, DC September 2012.
95. Jan Kretzschmar, Deborah L. Feairheller, Kathleen Sturgeon, Keith M. Diaz, Sheara T. Williamson, Praveen Veerabhadrapa, Chenyi Ling, Amanda Perkins, Heather Grimm, Hojun Lee, Dianne Babbitt, Deborah L. Crabbe, Abul M. Kashem, **Michael D. Brown**. Associations Between Improved Fitness And A Marker Of Hypertension Associated Neuro-Degenerative Disease S100B. American Heart Association High Blood Pressure Research Council Scientific Sessions, Washington, DC September 2012.
96. Chenyi Ling, Keith M. Diaz, Jan Kretzschmar, Deborah L. Feairheller, Kathleen Sturgeon, Sheara T. Williamson, Praveen Veerabhadrapa, Amanda Perkins, Hojun Lee, Heather Grimm, Dianne Babbitt, Abul Kashem, **Michael D. Brown**. High sodium excretion is not associated with reduced vasodilation in healthy African American adults. American Heart Association High Blood Pressure Research Council Scientific Sessions, Washington, DC September 2012.
97. Praveen Veerabhadrapa, Abul Kashem, Priya Kothapalli, Chenyi Ling, Keith Diaz, Deborah Feairheller, Jan Kretzschmar, Kathleen Sturgeon, Sheara Williamson, Deborah Crabbe, Deborah Ahrensfield, **Michael Brown**. Six months of lifestyle intervention reduces carotid intima-media thickness in African American adults. High sodium excretion is not associated with reduced vasodilation in healthy African American adults. American Heart Association High Blood Pressure Research Council Scientific Sessions, Washington, DC September 2012.

98. Deborah L. Crabbe, Kathleen M. Sturgeon, Karen M. Fossile, Keith M. Diaz, Praveen Veerabhadrappe, Hardik M. Vora, Deborah Fairheller, Sheara Williamson, Dong Xin, and **Michael D. Brown**. Menopausal Status Alters Oxidative Stress Markers and Diastolic Function in Middle-Age African-American Women. Women's Health Congress, The Academy of Women's Health, Washington D.C. March 2012.
99. Chenyi Ling, Keith M. Diaz, Jan Kretzschmar, Deborah L. Fairheller, Kathleen Sturgeon, Sheara T. Williamson, Praveen Veerabhadrappe, Amanda Perkins, Hojun Lee, Heather Grimm, Dianne Babbitt, **Michael D. Brown**. Relationship between aerobic exercise training and nocturnal blood pressure non-dipping status in normotensive adults. American College of Sports Medicine Annual meeting, Indianapolis, IN. May 2013.
100. Amanda M. Perkins, Dianne Babbitt, Keith Diaz, Heather Grimm, Chenyi Ling, Jan Kretzschmar, **Michael D. Brown**. Biopsychosocial Correlates of Exercise Adherence among African Americans Enrolled in the Fit 4 Life Study. American College of Sports Medicine Annual meeting, Indianapolis, IN. May 2013.
101. Dianne Babbitt, Amanda M. Perkins, Keith Diaz, Heather Grimm, Chenyi Ling, Jan Kretzschmar, **Michael D. Brown**. Effect of 6-months Aerobic Exercise on Biomarkers Interleukin-10 and Endothelial Microparticle CD62E in African Americans. American College of Sports Medicine Annual meeting, Indianapolis, IN. May 2013.
102. Ji-Seok Kim, Hojun Lee, Boa Kim, Brittany E. Wilson, Keisuke Kawata, Sunny Thakkar, **Michael D. Brown**, Joon-Young Park<sup>1</sup>. <sup>1</sup>Temple University, Philadelphia, PA. <sup>2</sup>University of Illinois at Chicago, Chicago, IL. Effects of Flow-Mediated Shear Stress on Vascular Homeostasis: Implications on Mitochondrial Biogenesis and Microparticles Formation. American College of Sports Medicine Annual meeting, Indianapolis, IN. May 2013.
103. Chenyi Ling, Keith M. Diaz, Jan Kretzschmar, Deborah L. Fairheller, Kathleen Sturgeon, Sheara T. Williamson, Praveen Veerabhadrappe, Amanda Perkins, Hojun Lee, Heather Grimm, Dianne Babbitt, **Michael D. Brown**. Association between nocturnal pulse pressure reduction and C-reactive protein in prehypertension stage. 2<sup>nd</sup> International Conference on PreHypertension & CardioMetabolic Syndrom. Barcelona, Spain, Jan 2013.
104. Ling, C., Diaz, K.M., Kretzschmar, J., Fairheller, D.L., Sturgeon, K., Williamson, S.T., Veerabhadrappe, P., Perkins, A., Lee, H., Grimm, H., & **Brown, M.D.** Non-dipping systolic blood pressure status and C -reactive protein level in normotensive adults. Presented at the American Society of Hypertension Annual Scientific Meeting, San Francisco, CA; May 2013.
105. Ling, C., Kretzschmar, J., Grimm, H., & **Brown, M.** Effects of gender and race on interleukin-6 production in response to CRP in HUVECs. Presented at Experimental Biology, Boston, MA; April 2013.
106. Crabbe, D.L., Fossile, K.M., Moser, C., Diaz, K.M., Veerabhadrappe, P., Eubanks, A., Fairheller, D.L., Sturgeon, K.M., & **Brown, M.D.** Missed Opportunity to Favorably Alter CVD Risk Factors in African Americans, especially African American Women. Presented at the Annual Congress of Women's Health, Washington DC; March 2013.

107. Babbitt, D.M.; Perkins, A.M.; Diaz, K.M.; Fearheller, D.L.; Sturgeon, K.M.; Veerabhadrapa, P.; Williamson, S.T.; Kretzschmar, J.; Ling, C.; Lee, H.; Grimm, H.; **Brown, M.D.** Adherence levels to an aerobic exercise training intervention in African Americans have no adverse impact on favorable endothelial adaptations.”(Abstract) J American Soc of Hypertension. Volume 8:4, Supplement e115 May 2014
108. Abeer M Mahmoud, Mary R Szczurek, Austin T Robinson, Jacob T Mey, Brian K Blackburn, Jing-Tan Bian, **Michael D Brown**, Phillips A Shane, Jacob M Haus. Hyperinsulinemia Disrupts Vascular Homeostasis, Enhances Oxidative Stress and Impairs Flow Induced Dilation of Human Skeletal Muscle Arterioles. American Heart Association Scientific Sessions, Chicago, IL. June 2014.
109. Heather Grimm, Jan Kretzschmar, **Michael D. Brown**. Racial Differences in Vascular Function. North American Artery Society Annual Meeting. Chicago, IL September, 2014.
110. Chenyi Ling, Jan Kretzschmar, Heather Grimm, **Michael Brown**. Racial differences of eNOS expression respond to C-reactive protein. North American Artery Society Annual Meeting. Chicago, IL September, 2014.
111. Maitha Aldokhayyil, Chenyi Ling, Marc D. Cook, Heather Grimm, Michael Brown. Racial Differences in CRP Receptor and Influence on eNOS Bioactivity and NO Production in Endothelial Cells. Experimental Biology Meeting, Chicago, IL April 2017.
112. AT Robinson, MD Cook, MD Brown, and SA Phillips. Laminar Shear Stress Reduces NADPH Oxidase II Expression but Does Not Increase Superoxide Dismutase Expression in Human Adipose Microvascular Endothelial Cells. Experimental Biology Meeting, Chicago, IL April 2017.
113. Kanokwan Bunsawat, Georgios Grigoriadis, Sang Ouk Wee, Garrett Griffith, Michael D. Brown, Shane A. Phillips, Paul J. Fadel, Philip S. Clifford, Bo Fernhall, Tracy Baynard. No Evidence of Impaired Functional Sympatholysis in Young Obese Adults. Experimental Biology Meeting, Chicago, IL April 2017.
114. Adelola Adeyemo, Chenyi Ling, Marc D. Cook, Heather Grimm, Michael Brown. Racial Differences in Cell Adhesion Molecule Expression in HUVECs. Experimental Biology Meeting, Chicago, IL April 2017.
115. Moderator, Sleep and Cardiovascular Risk, North American Artery 7<sup>th</sup> Annual Meeting, Chicago, IL 2017.
116. Moderator, Health Disparities and Cardiovascular Risk, North American Artery 7<sup>th</sup> Annual Meeting, Chicago, IL 2017.
117. Marc Cook M.S., Adelola Adeyemo, Maitha Aldokhayyil, Michael Brown. In vitro exercise, laminar shear stress, attenuates basal MMP-2 dysfunction in cultured African American endothelial cells. American College of Sports Medicine Annual Meeting, Denver, CO. May, 2017.
118. Adelola O. Adeyemo, Chenyi Ling, Heather Grimm, Michael Brown. Increased Laminar Shear Stress Reduces Inflammation-Induced Endothelial Microparticle Apoptosis in HUVECS. Southeast Regional Meeting American College of Sports Medicine, February, 2018.

## **Invited Talks**

- 11/97 National Institute on Aging Technical Workshop, Bethesda, MD. *Nitric Oxide Production and Exercise.*
- 6/05 American College of Sports Medicine Symposium, Nashville, TN. *The Black Athlete and Athleticism: Are there Cardiovascular Advantages?*
- 4/96 University of Michigan Medical Center, Department of Internal Medicine Research Day. Ann Arbor, MI. *Improvement of Insulin Resistance Syndrome by Short-term Exercise Training in Hypertensive African Americans.*
- 4/97 Central Societies for Clinical Research Meetings, Chicago, IL. *Exercise Training in Older Hypertensives is Associated with Reduced Sympathetic Nervous System Activity.*
- 2/97 University of Michigan Medical Center, Department of Internal Medicine Research Day. Ann Arbor, MI. *Further Decrements in Insulin Sensitivity in Older Salt-Sensitive Hypertensives.*
- 3/97 Kinesiology Day, University of Michigan, Ann Arbor, MI. *Dietary Salt Restriction Does Not Improve Insulin Sensitivity in Older Hypertensive Humans Regardless of Salt-Sensitivity Status.*
- 8/96 Institute of Gerontology Research Seminar. University of Michigan. Ann Arbor, MI. *Regulation of Peripheral Circulation.*
- 12/96 Geriatric Research, Education and Clinical Center Fellows Research Seminar. Department of Veterans Affairs Medical Center, Ann Arbor, MI. *"Norepinephrine Kinetics and Vascular Adrenergic Responsiveness in Older Hypertensives.*
- 5/97 Geriatric Research, Education and Clinical Center Research Seminar. Department of Veterans Affairs Medical Center, Ann Arbor, MI. *Increased Nitric Oxide Biomarkers During Exercise-Induced Vasodilation in the Forearm.*
- 6/98 Twelfth Annual Conference of African Americans in Higher Education, College Park, MD. *Wellness Issues Facing the Minority Community in the New Millennium.*
- 9/99 University of Maryland Senior University. Biological Theories of Aging.
- 11/99 Aerobic exercise training does not impair kidney function or sodium handling in older hypertensive individuals. Central Society for Clinical Research, Chicago, IL.



- 11/00 University of Maryland Bioscience Research and Technology Review Day. University of Maryland Inn and Conference Center, College Park, MD. *ACE gene polymorphism and exercise training-induced changes in sodium excretion in African Americans.*
- 11/00 University of Maryland Bioscience Research and Technology Review Day. University of Maryland Inn and Conference Center, College Park, MD. *The role of ACE and eNOS gene polymorphisms on blood pressure sensitivity to sodium in older hypertensives.*
- 10/01 United States Department of Agriculture, Beltsville Human Nutrition Research Center. Beltsville, MD. *"Blood Pressure, Genetics, and Exercise in Hypertensive African Americans".*
- 7/01 Washington DC Veterans Administration Hospital, Cardiology Division. *Gene-Environment Interactions on Cardiovascular Disease and Function: Racial/Ethnic Perspectives.*
- 5/02 Howard University General Clinical Research Center Clinical Conference. Washington, DC. *Gene-Exercise Interactions in Hypertension.*
- 11/02 American College of Sports Medicine Mid-Atlantic Regional Chapter, Guest Speaker. *Recent Developments in the Understanding of Hypertension: Gene-Gene and Gene-Environment Interactions.*
- 4/03 Penn State University, Department of Kinesiology Colloquium. University Park, PA. *Kinesiogenomics: Interactions of Genes and Exercise on Cardiovascular Function and Insulin Sensitivity.*
- 4/03 Penn State University, Noll Physiological Research Center Seminar Series. University Park, PA. *Gene-Environment Interactions on Cardiovascular Function and Glucose Metabolism.*
- 11/04 University of Delaware, Department of Health, Nutrition and Exercise Sciences Research Seminar. *Gene Effects and Gene-Exercise Interactions on Cardiovascular Function.*
- 6/05 ACSM/Black Coaches Association Joint Minority Symposium: *The Black Athlete and Athleticism Are There Cardiovascular Advantages?*
- 4/08 Ball State University. School of Physical Education, Sport, and Exercise Science. *Grantsmanship.*
- 3/08 Future Faculty Fellowship and Bridge to Doctorate Program, Member of a panel discussion on Surviving a Doctoral Program. Temple University

- 6/08 Inaugural Internal Advisory and External Advisory Boards Meeting, Center for Minority Health and Health Disparities, *Genetics, Vascular Function, and Exercise in African Americans* Temple University School of Medicine.
- 6/08 Grand Rounds, Cardiology Section, Department of Medicine, Temple University. *Endothelial Function in African Americans: Exercise and Genetic Implications for Vascular Health.*
- 3/09 Health Disparities Research Panel, Office of the Senior Vice President for Research and Strategic Initiatives, Temple University Research Week. *Hypertension Disparity; Can Lifestyle Modification Play a Role?*
- 5/09 American College of Sports Medicine, Tutorial Lecture. *Grant Funding Training Opportunities at NIH: Insights from a NIH Peer Reviewer, K Awardees and a NIH Scientific Review Officer*
- 1/10 University of Maryland College Park, School of Public Health, Department of Kinesiology Research Symposium, *Characterizing the Endothelial Phenotype in African Americans.*
- 5/11 American College of Sports Medicine, Tutorial Lecture, *“Effects of Shear Stress on Endothelial Cell Phenotype: Insights into the Effects of Exercise,* American College of Sports Medicine Annual Meeting, Denver, CO, May, 2011.
- 5/12 American College of Sports Medicine, Symposium Lecture, *Under Pressure: Is Shear the Principle Mediator of Exercise-induced Vascular Adaptation,* American College of Sports Medicine Annual Meeting and and 3rd World Congress on Exercise is Medicine, San Francisco, CA, May, 2012.
- 7/12 American College of Wound Healing and Tissue Repair. *Molecular determinants of wound healing in vulnerable populations.”* Chicago, IL,
- 3/13 University of Massachusetts Amherst, Department of Kinesiology Seminar Series, *Endothelial Phenotype in African Americans.”* Amherst, MA.
- 12/14 University of Illinois at Chicago, Department of Kinesiology and Nutrition, Distinguished Speaker Series, *Are Endothelial Microparticles Biological Conveyors of the Endothelium?*
- 6/15 American Diabetes Association Scientific Sessions, *Effects of exercise on Vascular Function in Diabetes.”* Boston MA.
- 8/15 The Chronic Renal Insufficiency (CRIC) Study Informational Session, *Effects of Exercise in Chronic Kidney Disease.*

3/16	University of Florida, Department of Applied Physiology and Kinesiology Seminar Series, <i>Effects of Exercise on Vascular Health in African Americans with Hypertension</i> .
5/2017	American College of Sports Medicine Annual Meeting, Symposium entitled "Health Disparities in Pressure: Does Exercise Matter?" Presentation entitled "Molecular and Cellular Mechanisms for Differential Blood Pressure Responses to Exercise among African Americans and Caucasians."
11/2017	Center for Health Ecology and Equity Research, Auburn University, Research Seminar "Hypertension and African Americans".

**f. Grant Funding**

**National**

1. **National Institute of General Medical Science Individuals National Research Service Award**, Predoctoral Fellowship, Grant # RO3 AG1278. *Antihypertensive Interventions in African American Hypertensives*. **Funded** 8/93-8/95, (\$40,000).  
**Role:** PI
2. **National Institute on Aging Postdoctoral Research Supplement**, Grant # P60 AG08808, **Principal Investigator**. Older American Independence Center, *Regional Norepinephrine Kinetics*. **Funded** 9/96-9/98, (\$160,000).  
**Role:** PI
3. **American Heart Association- Mid-Atlantic Affiliate, Beginning Grant In Aid**, Grant #9960316C, **Principal Investigator**. *Renal Hemodynamics, Blood Pressure Regulation, and Exercise in African American Hypertensives*. 7/99-6/02.  
**Funded** (\$100,000).  
**Role:** PI
4. **NIH/NIA 2 T32 AG00268-06. Pre-doctoral Training Grant**, Pre-doctoral Training in Exercise Physiology and Aging. 1999-2004, Faculty. **Funded**. (\$600,000).
5. **National Institute on Aging Career Development Award (KO1)**, Grant # 1KO1AG019640-01A2, **Principal Investigator**, *Endothelial Nitric Oxide Synthase Gene Polymorphism, Blood Pressure, Renal Hemodynamics, and Exercise in African American Hypertensives*. **Funded** 1/1/03-2/28/09 (1 years no cost extension). (\$495,000).  
**Role:** PI
6. **National Institutes of Health Clinical Loan Repayment Program**, PI, **Funded**. 2006-2008.

7. **National Heart, Lung, and Blood Institute.** Grant # R01 HL085497-01A1. *Genetics of In Vivo and In Vitro Endothelial Function in African Americans.* 8/25/2007-5/31/2013.  
**Funded** (\$3,305,550).  
**Role:** PI
8. **National Institutes of Health/NHLBI Predoctoral Training Grant (T32).** 1 T32 HL091804-01A01. *Integrative Cardiovascular Pathophysiology.* Steve Houser (PI), **Funded** (\$950,358). 07/09-06/14.  
**Role:** Faculty.
9. **National Institutes of Health/NHLBI Minority Research Supplement (GRS)**  
Supplement to R01 HL085497-01A1 (**PI-M. Brown**) 3RO1HL085497-03S1. 7/1/09-5/31/12. *Interrelationship between AT1R gene variants and the vascular circadian clock in the regulation of circadian blood pressure patterns in African Americans.* **Funded.** (\$173,661).  
**Role:** PI
10. **American Heart Association** Predoctoral Fellowship, Boa Kim (PI), 2012 – 2014  
*Effects of Laminar Shear Stress on Mitochondrial DNA Integrity in Endothelial Cells.*  
**Funded.**  
**Role:** Co-Sponsor
11. **NIH/NHLBI (T32)** Training in CVD Epidemiology & Related Chronic Diseases in Minority Populations. Martha Diviglus, MD, PhD (PI)  
Status: **Funded**  
\$262,290  
**Role:** Faculty
12. **National Institutes of Health/NHLBI (R01).** Exercise Training Approaches to Restore Endothelial Function in Obese African Americans. Shane Phillips (PI).  
Status: **Funded**  
**Role:** Co-I, Percent Effort (10%)
13. **National Institutes of Health/NHLBI (R01).** Optimized Therapy for Vascular Inflammation in African Americans.  
\$1,930,000  
Status: **Not funded**  
**Role:** (PI) Percent effort (20%)
14. **National Institutes of Health (R56).** Grant # 1R56HL126657-01A1. A Hypertension Emergency Department Intervention Aimed at Decreasing Disparities (AHEAD2). Heather Prendergast, MD (PI)  
\$1,804,934  
Status: **Funded**  
**Role:** Co-I (12%)
15. **National Institutes of Health Common Fund (U01).** University of Illinois Molecular Transducers of Physical Activity Adult Clinical Center.  
Jeffrey Woods (Co-PI)  
Status: **Not funded**

**Role:** Co-PI

16. **National Institutes of Health (R21).** The Macrovascular and Microvascular Profile of Patients with Diabetes.  
Houry Puzantian (PI)  
Status: **Submitted**  
Role: Consultant
17. **National Institutes of Health (K12).** Deep South Mentored Career Development in Patient Centered Outcomes Research.  
Richard Hansen (PI)  
Status: **Submitted**  
Role: Primary Mentor
18. **National Institutes of Health (R01).** A Novel Primary Prevention of Hypertension Strategy.  
Michael Brown (PI)  
Status: **Submitted**

**Internal**

1. **General Research Board, University of Maryland, Summer Research Grant.** Effects of Acute and Chronic Exercise on Nitric Oxide Production.  
PI  
**Funded** (\$10,000).
2. **Veterans Affairs Merit Grant Type II, Grant 121F, Co-investigator,** Effects of Exercise on Endothelial Function in Stroke Patients. 4/1/01-3/31/04,  
Co-I  
**Funded.** (\$355,000).
3. **Seed Grant, Temple University.** The Relationship Between Periodontitis, Hypertension and Immune/Inflammatory Dysfunction in African Americans.  
Co-PI  
**Funded** (\$50,000).
4. Temple University *Interdisciplinary Community Based Participatory Research in Stress and Wellness.*  
Co-PI  
**Funded** (\$12,000).
5. **Campus Research Board Pilot Grant.** *Optimizing Vascular Health in African Americans.*  
PI  
**Funded** (\$20,000)
6. **Presidential Award for Interdisciplinary Research.** Cognitive and Vascular Aging  
Co-I  
**Submitted**
7. **Presidential Award for Interdisciplinary Research.** **Cognitive and Vascular Aging**  
Co-I

## Submitted

### ***g. Reviewing Grants, Manuscripts, and Books***

#### Grants

Department of Veterans Affairs Merit Grant. Endothelial Dysfunction in Type 2 Diabetes: Effects on Exercise capacity.

Study Section: NIH, National Institute of General Medical Sciences, MBRS Review Panel. October 5, 2001.

Study Section: NIH Center for Scientific Review Special Emphasis Panel, ZRG1 SS-C (29) Minority/Disability Predoctoral Fellowships-DCPS. July 27-28, 2002.

Study Section: NIH, National Institute of General Medical Sciences, MBRS Review Panel. February 3-4 5, 2003.

NIH Center for Scientific Review Special Emphasis Panel, ZRG1 SSS-C (29) Minority/Disability Predoctoral Fellowships-DCPS. August, 2003.

Pennsylvania Department of Health Interim Panel Review Board. December 7-9, 2004. Purpose was to review progress and make recommendation for improvement for two 5 million dollar State funded grants.

NIH Center for Scientific Review Special Emphasis Panel, Predoctoral Fellowships. March, 2005.

Minnesota Partnership for Biotechnology and Medical Genomics, 2007

American Heart Association, Region1, Vascular Biology and Blood Pressure Review Committee, April 2008.

University of Maryland Claude D. Pepper Older Americans Independence Center and Maryland Exercise and Robotics Center of Excellence, Pilot Research Projects, May, 2008.

NIH/National Heart, Lung, and Blood Institute Patient Oriented Research Career Enhancement Award Review Group, 2007-2011.

NIH/Neurological, Aging, and Musculoskeletal Epidemiology Study Section, 2008.

American Heart Association, Region1, Vascular Biology and Blood Pressure Review Committee, April 2009-present.

Maryland Industrial Partnerships, Maryland Technology Enterprise Institute (MTECH), University of Maryland. These grants are to fund industry-university partnerships, November 2009.

NIH/Motor Function, Speech and Rehabilitation Study Section (MFSR) Study Section, 2012, Ad hoc reviewer.

NIH/Motor Function, Speech and Rehabilitation Study Section (MFSR) Study Section, 2012, Regular member. October 2013-October 2019.

#### Journals

Manuscript Reviewer:

Diabetes Care  
Journal of Applied Physiology  
Journal of the American Geriatrics Society  
Journal of the Southern Medical Association  
Medicine & Science in Sports & Exercise  
International Journal of Sports Medicine  
Journal of Human Hypertension  
Kidney International  
Maturitas  
Vascular Medicine  
American Heart Journal  
Vascular Health and Risk Management  
Journal of Translational Medicine

#### Editorial Boards

Exercise and Sports Science Reviews (January 2013-December 2016)

World Journal of Hypertension (January 2016-December 2019)

Translational Journal of the American College of Sports Medicine January 2017-December 2020

#### Books

Exercise and Disease Management: A Manual for Health Care Teams and Their Patients. G & B Editorial Services, Inc., Provided editorial function.

### ***h. Other Scholarly Activities***

#### ***i. Chapters in Books***

RD Dibner, MM Shubin, N Taylor-Tolbert, DR Dengel, SD McCole, **MD Brown**, JM Hagberg. 1996. *Effect of Exercise Training and Acute Exercise on Essential Hypertensives*. In VA Rogozkin and R Maughn (Ed.), *Current Research in Sports Sciences; An International Perspective*. (pp.295-301). New York, NY: Plenum Press.

**MD Brown** and J-Y Park. 2015. Effects of In Vitro Laminar Shear Stress as an Exercise Mimetic on endothelial Cells. Pescatello, LS (Ed.), *In Effects of Exercise on Hypertension: From Cells to Physiological Systems*. (pp.157-184). New York, NY Humana Press.

#### ***ii. Proceedings from National Meetings***

RM Dibner, MM Shubin, N Taylor-Tolbert, SD McCole, DR Dengel, **MD Brown**, JM Hagberg. *Effect of exercise training and acute exercise on essential hypertensives. Proceedings of the 1994 Goodwill Games Scientific Meetings*. 1994.

iii. Invention Disclosures Filed

*Genetic Markers Which Identify Individuals Who Decrease Their Blood Pressure Through Exercise*. Inventors: JM Hagberg, **MD Brown**, RE Ferrell. 1999.

*ACE Gene Polymorphism and Exercise Training-Induced Changes In Sodium Excretion In African Americans*. Inventors: **MD Brown**, JM Hagberg, RE Ferrell. 2000.

*The Roles of ACE and eNOS Gene Polymorphisms On Blood Pressure Sensitivity To Sodium In Older Hypertensives*. Inventors: **MD Brown**, MA Supiano, RE Ferrell, DR Dengel. 2000.

*A Self-Contained System for Applying Fluid Shear Stress to Cultured Cells*. Inventors: **MD Brown** and J Kretzschmar. 2013.

iv. Patents

US patent # 6,399,306. *Genetic Markers Which Identify Individuals Who Decrease Their Blood Pressure Through Exercise*. 2002.

US patent # 6,743,587. *ACE Genotype which Correlates with Improved Success in Sodium Excretion in Hypertensives with Exercise*. 2004.

v. Option Agreements

BodyMedia, Inc. bought an exclusive option to all gene marker technologies produced by a group of investigators.

vi. Memoranda of Understanding

Johns Hopkins University, Meyerhoff IBD Genetics Laboratory having a shared interest in investigating the activation of NFKB1 (p50/p105) – Promoter Interactive Protein in Human Umbilical Vein Endothelial Cells, and the association of NFKB1 -96 ATTG insertion/deletion polymorphism with shear stress-induced NFKB1 promoter activation in Human Umbilical Vein Endothelial Cells.

vii. External Committees

NRSA Minority Recruitment and Retention Committee for a National Institute on Aging T32 Predoctoral Institutional Training Grant in Gerontology and Exercise Biology at the University of Maryland (Current).

University of Maryland School of Public Health Summer Training and Research (UM-STAR) to provide research experiences for individuals from groups underrepresented in the biomedical and behavioral sciences.

3. TEACHING AND ADVISING



**a. Courses Taught**

**University of Maryland**

i. Kinesiology Core Courses

KNES 360: Physiology of Exercise: 3 Credits  
Format: Lecture and laboratory

Fall 1998:	N=77
Summer 1998:	N=30
Spring 1999:	N=40
Summer 2000:	N=26
Spring 2001:	N=44
Spring 2002:	N=28
Fall 2002:	N=68
Summer 2002:	N=32
Spring 2002:	N=32
Spring 2003:	N=28
Summer 2003:	N=18
Summer 2004:	N=42
Summer 2005:	N=29
Winter 2006:	N=21
Summer 2006:	N=25

ii. Kinesiology Options Courses

KNES 498F: Exercise and Aging: 3 Credits (team taught with another instructor)  
Format: Lecture

Spring 1999:	N=46
Spring 2000:	N=28
Spring 2001:	N=24
Spring 2002:	N=45
Spring 2003:	N=42
Spring 2004:	N=46
Spring 2005:	N=42
Spring 2006:	N=47

KNES 389K: Topical Investigations: Kinesiological Science Internship: 3 Credits  
Format: Internship

Fall 1998:	N=2
Fall 1999:	N=5

iii. University Core Courses

KNES 260: Science of Physical Activity and cardiovascular Health: 3 credits  
Format: Lecture

Summer 1998:	N=15
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iv. KNES Graduate Courses

KNES 692: Cardiovascular Aspects of Exercise Physiology: 3 credits (Team taught with another instructor)  
Format: Lecture

Fall 1999:	N=12
Fall 2000:	N=10
Fall 2001:	N=9
Fall 2002:	N=15
Fall 2003:	N=8
Fall 2004:	N=7
Fall 2005:	N=5

KNES 609: Research Issues in Kinesiology: 1 Credit  
Format: Journal Club/Lab meeting

Spring 2002:	N=5
Fall 2002:	N=5

KNES 689: Special Problems in Kinesiology:  
Format: Independent Study Projects

Fall 1998:	Credits=3	N=15
Fall 1999:	Credits=12	N=4
Spring 2000:	Credits=6	N=2
Fall 2000:	Credits=12	N=3
Spring 2001:	Credits=12	N=3
Fall 2001:	Credits=17	N=4
Spring 2002:	Credits=12	N=5
Fall 2002:	Credits=12	N=5
Fall 2004:	Credits=9	N=3
Spring 2004:	Credits=3	N=1

KNES 799 Master's Thesis Research:  
Format: Research

Spring 1999:	Credits=5	N=1
Fall 2000:	Credits=6	N=3
Spring 2001:	Credits=6	N=2
Fall 2001:	Credits=12	N=3
Spring 2001:	Credits=6	N=3
Fall 2001:	Credits=9	N=3

KNES 899 Doctoral Dissertation Research:  
Format: Research

Fall 2000:	Credits=2	N=1
Spring 2001:	Credits=2	N=1
Fall 2001:	Credits=2	N=1
Spring 2002:	Credits=1	N=1
Fall 2002:	Credits=1	N=1

Spring 2004:	Credits=3	N=1
Fall 2005:	Credits=6	N=1

**Temple University**

i. Undergraduate/Graduate Courses

Kin 4313/5313 Exercise and Aging (Graduate (5313) and Undergraduate (4313))  
Format: Lecture

Spring 2007:	Credits=3	N=41
Spring 2008:	Credits=3	N=38
Spring 2009:	Credits=3	N=46
Spring 2010:	Credits=3	N=50
Spring 2011:	Credits=3	N=41

Kin 4313/5313 Adv. Exercise Physiology/Exercise Physiology  
Format: Lecture

Fall 2007:	Credits=3	N=17
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Kin 4282 Independent Study in Kinesiology  
Format: Lecture, Ind. Research

Fall 2008:	Credits=variable	N=22
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ii. Graduate Courses

Kin 511 Cellular Adaptations to Exercise  
Format: Lecture

Fall 2006:	Credits=3	N=8
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Kin 9201 Cardiovascular Exercise Physiology

Fall 2009:	Credits=3	N=7
Fall 2010	Credits=3	N=17

**University of Illinois at Chicago**

Undergraduate/Graduate Courses

KN 352 Physiology of Exercise  
Format: Lecture/Lab

Fall 2013:	Credits=3	N=63
Spring: 2014	Credits=3	N=56
Spring: 2015	Credits=3	N=44

	Spring: 2016	Credits=3	N=67
KN 594	Cardiovascular Exercise Physiology Format: Lecture		
	Fall 2014	Credits=3	N=17
KN 500	Evidenced-Based Practice in Kinesiology and Nutrition		
	Fall 2015	Credits=3	N=18

***Auburn University***

i. Undergraduate/Graduate Courses

KINE 8970	Special Topics: Exercise and Cardiovascular Disease Risk Factors Format: Seminar		
	Spring 2018:	Credits=3	N=14

***b. Advising***

***University of Maryland***

i. Undergraduate

Undergraduate and High School Research Interns: Individuals who received research training under my mentorship.

Eric Jonas	“Calf Blood Flow Following Acute Aerobic Exercise”
Terri White	“Effects of Acute Forearm Exercise of Forearm Blood Flow in Females”. Kinesiology Major Senior Thesis.
Greg Brengle	“Forearm Exercise Training Increases Nitrate Levels”. Rutgers University.
John Kouame	“Relationship Between Systolic Blood Pressure and Nitric Oxide Following Acute Aerobic Exercise”. (BIO MAP).
Julianne Neal	“The Effects of 4 weeks of Forearm Exercise Training on Nitric Oxide Production”. URAP. Journal of Undergraduate Research.
Mariama Bah	“Four Weeks of Forearm Exercise Training Does Not Affect Nitric Oxide levels in the Forearm.” (BIO MAP).
Nadine Williams	“The Association Between Urinary Sodium and Endothelin-1 Excretion in African American Hypertensives Before and After Short-Term Exercise Training.” (URAP).
Gloria Sheng	“Association of Angiotensin-Converting Enzyme Genotype and Endothelial Function.” Montgomery Blair High School Science Magnet Program.

Yonas Assefa	“The Effects of the eNOS 27-bp Repeat Gene Polymorphism on Peripheral Vascular Function in Young Caucasian Women.” (BIO MAP).
Ashley Gamby	“Relationship Between VO <sub>2</sub> max and the ACE I/D Gene Polymorphism in Young African Americans”. Eleanor Roosevelt High School Science and Technology Program.
Lindsey Giles	“Genetics and Cardiovascular Function During Exercise in College Age Females”. Pennsylvania State University.
Matt Bathula	“Plasma and Urine Endothelin-1 Isolation Methods” (BIO MAP).
Selome Abbay	“Effects of Exercise Training on Markers of Lipid Oxidation in Older Individuals”. (BIO MAP).
Adeola Olotu	“Blood Pressure and the Angiotensin II Type 1 Receptor A166C Gene Polymorphism” (BIO MAP).
Meena Somanchi	“Analysis of the Superoxide Dismutase ARG213GLY Gene Polymorphism” (BIO MAP)
Michael Hickey	“Association Endothelin-1 Converting Enzyme C-338A Gene Polymorphism and Plasma Endothelin-1 Levels” (Pre-Veterinary Student)
Madhumitha Bezwada	“Effect of Aerobic exercise Training on Plasma Aldosterone and Blood Pressure in Middle-aged to Older Hypertensives” Eleanor Roosevelt High School Science and Technology Program.
MaryPat Meaney	Undergraduate Senior Thesis “The Effect of Hydration on Post-Exercise Hypotension”. Department of Kinesiology, University of Maryland.
Selasi Attipoe	Summer Scholar Program. “Influence of Gender on Exercise Training-Induced Oxidative Stress”
Annie Wong	Dept. of Kinesiology Honors Student, Senior Thesis. “Effects of Aerobic Exercise Training on Renal-Derived Endothelin-1 Levels
Lulit Price	High School Intern, Science and Technology Program, Charles H. Flowers H.S. “Association of Endothelin Converting Enzyme Genotype on Plasma Endothelin Changes with Exercise Training”.

***Temple University***

Giorvahny Agustine	Ronald McNair Post-Baccalaureate Achievement Program Temple University. The purpose of the program is to increase the diversity of students enrolled in doctoral study. “Clinical predictors of Glomerular Filtration Rate in African Americans”
Hosie Tart	Bridges to Baccalaureate Program. The Bridges Program is funded through the National Institute of Health and is dedicated to offering assistance for students seeking college transfer success. The program works towards promoting the students into a reputed university and bridging them towards their higher professional

	goals and links them with research mentors in order to gain experience in biomedical/bio-behavioral research.
Rachel Mergaman	Undergraduate Student Summer Research Intern- Dietary Intervention (Kinesiology Student).
Whitley Roper	Undergraduate Student Summer Research Intern- Dietary Intervention (Kinesiology Student).
James Kerfoot	Undergraduate Student Summer Research Intern- Exercise Intervention (Kinesiology Student).
Steve Fries	Undergraduate Student Summer Research Intern- Exercise Intervention (Kinesiology Student).
Ingrid Luna	Undergraduate Student Summer Research Intern- Exercise Intervention (Public Health Student).
Lisa Chea	Undergraduate Student, Department of Kinesiology, Independent Study. Cardiovascular Disease Risk Factors in Pre- and Post-menopausal African American Women.
Mia Reed	Ronald McNair Post-Baccalaureate Achievement Program Temple University. The purpose of the program is to increase the diversity of students enrolled in doctoral study. "Unveiling the Obesity Mystery: Does Liver Function Contribute to Obesity?"  McNair Atlanta Southeastern Association of educational Opportunity Program Personnel (SAOPP) Conference- placed 3 <sup>rd</sup> in the health science category out of 300 presentations
Kamli Thompson	College of Science and Technology, Pre-Medical Student. Food Deserts and Blood Pressure In African Americans

Graduate and Medical School Students (Not advisees) who have received research training under my direction at **Temple University**

Whitney Cox	Temple University School of Medicine Short Term Education Program for Undergraduate and Predoctoral students (STEP UP). The program is supported by an NIH Training Grant with the goal of to increase the number of minorities involved in health-related research. The focus of the research training was clinical hypertension and cell biology research.
Anupam Shrivastava	Physician (India). The focus of the research training was clinical hypertension research

Anil Nadipelli	Foreign trained physician
April Glenn	Temple University School of Medicine Short Term Education Program for Undergraduate and Predoctoral students (STEP UP).
Kofie Asihene	Temple University School of Medicine Short Term Education Program for Undergraduate and Predoctoral students (STEP UP).
Melisa Diaz	Temple University School of Medicine Short Term Education Program for Undergraduate and Predoctoral students (STEP UP).
Kendra Newman	Temple University School of Medicine Short Term Education Program for Undergraduate and Predoctoral students (STEP UP).
Erica Chirico	Department of Kinesiology, Temple University.

Graduate and Medical School Students (Not advisees) who have received research training under my direction at **University of Illinois at Chicago**

Ashley Randal	UIC Center for Clinical and Translational Science Summer Research Fellow.
Dionte Wiggins	UIC Center for Clinical and Translational Science Summer Research Fellow.

Other Individuals who received research training under my direction.

***Temple University***

Sunny Thakkar	Masters Degree student in Integrative Exercise Physiology, Temple University. Development of methods to measure endothelial microparticles in humans and endothelial cells. Presented an abstract at the 2011 American College of Sports Medicine annual meeting, Denver, CO.; Submitted an AHA Council for High Blood Pressure Research abstract (under review) for the 2011 annual meeting; Co-author on 2 manuscripts (1 published, 1 in press).
Charmie Vin	Masters Degree student in Integrative Exercise Physiology, Temple University. Assessment of 8-isoprostane $f_2\alpha$ as a marker of lipid peroxidation, DNA extraction. Presented an abstract at the 2011 American College of Sports Medicine annual meeting, Denver, CO.
Amanda Perkins	Doctoral Student in Sport Psychology. Lifestyle Intervention Adherence in African American Research Volunteers.

ii. Masters

***University of Maryland***

Advisee: Jennifer Johnson (8/99-5/01)  
David Vizcaino (8/99-5/03)  
Sheri Data (8/00-12/02)  
Luci Gabel (8/00-5/03)  
Carolyn Albright (8/01-5/03)  
Selasi Attipoe (1/06-8/07)

Committee: Ryan Clancy  
Ian McMahon  
Nicole Fendrick  
Victoria Proctor  
Jennifer McKenzie  
Tina Ellis  
Rakesh Gupinathannair  
Amanda Harne  
Neil Doldo  
Faith Augrom

iii. Doctoral

***University of Maryland***

Advisees: Jung-Jun Park (8/98-12/02) Thesis, "Effects of Exercise Training on Plasma Nitric Oxide Metabolite Levels: Association with Common eNOS Gene Polymorphisms"

Jennifer Jones (9/00-5/04) Thesis "Influence of the CYP11B2 -344C/T Polymorphism on Plasma Aldosterone, Sodium Excretion, and Blood Pressure Responses to Long Term Aerobic Exercise Training in Middle-Aged to Older Prehypertensives"

Joon-Young Park (6/02-5/06). Awarded an American Heart Association Predoctoral Fellowship entitled "Functional Analysis of NFkB Gene Variation in Hypertensives: Exercise Training Intervention and Human Endothelial Cell Shear Studies"

Nicola Fenty (8/03-5/07). Influence of AT1R Polymorphisms and Aerobic Exercise Training on Angiotensin II, Oxidative Stress and Nitric Oxide.

***Temple University***

Deborah Fearheller (8/06-12/10)- Assistant Professor  
Katie Sturgeon (8/07- 8/11)- Post Doc University of Pennsylvania  
Keith Diaz, NIH Fellow (8/08-5/12)- Post Doc Columbia University  
Praveen Veerabhadrapa (8/08-12/12)- Assistant Professor  
Sheara Williamson (8/07-5/12)- Assistant Professor  
Jan Kretzschmar (1/10-5/12)  
Dianne Babbitt (8/10-5/2016)  
Chenyi Ling (8/10-5/12)

***University of Illinois at Chicago***

Jan Kretzschmar (8/10-5/14)  
Heather Grimm (8/12-5/2016)  
Chenyi Ling (8/12-2015)



Adelola Adeyemo (8/14-5/17)  
Maitha Aldokhayyil (1/15-5/17)

**Auburn University**

Adelola Adeyemo (8/117-present)  
Maitha Aldokhayyil (8/17-present)

**Committees – University of Maryland:**

Diane Hurlbut  
Dana Brown  
Stephen Roth  
Mark Roltsch  
Onanong Tiyasangthog  
Edward Weiss  
Amy Halverstadt  
Matthew Delmonico  
Chad Paton  
Brian Hand  
Steve Prior  
Tina Ellis  
Sean Walsh  
Daheia Barr-Anderson  
Anne Andrews

**Committees – Temple University**

Joohee Im Sanders (Department of Kinesiology, Temple University)  
Greg Schrader (Department of Kinesiology, Temple University)  
Lauren Tapp (Department of Kinesiology, Temple University)  
Michele Heayne (Department of Physiology, Temple University School of Medicine)  
Deborah Fearheller (Advisee, Department of Kinesiology, Temple University)  
Katie Sturgeon (Advisee, Department of Kinesiology, Temple University)  
Clare Lenhart (Department of Public Health, Temple University)  
Deepti Varma (Department of Chemistry, Temple University)  
Nieka Toon (Department of Kinesiology, Temple University)  
Jane McDevitt (Department of Kinesiology, Temple University)  
Dianne Babbitt (Department of Kinesiology, Temple University)  
Boa Kim (Department of Kinesiology, Temple University)  
Ji-Seok Park (Department of Kinesiology, Temple University)

**Committees – University of Illinois at Chicago**

Kristin Hoddy (Department of Kinesiology and Nutrition)  
Abby Lane (Department of Kinesiology and Nutrition)  
Rebecca Kappus (Department of Kinesiology and Nutrition)  
Brian Blackburn (Department of Kinesiology and Nutrition)  
Kanokwan Bunsawat (Department of Kinesiology and Nutrition)  
AJ Rosenburg (Department of Kinesiology and Nutrition)  
Jake Mey (Department of Kinesiology and Nutrition)  
Edwin Miranda (Department of Kinesiology and Nutrition)  
Austin Robinson (Department of Kinesiology and Nutrition)  
Ahmad Sabbahi (Department of Physical Therapy)

**Committees – Auburn University**

Petey Mumford (School of Kinesiology)

iv. Post-Doctoral Fellows

Jung-Jun Park, Ph.D  
Nicola Fenty-Stewart, Ph.D.  
Marc Cook, Ph.D

v. Visiting Scholars/ Fellows

Jay-Heung Im, Ph.D. Visiting Scholar, School of Humanities and Social Science,  
Korea Advanced Institute of Science and Technology

Anderson Zago, Doctoral Student, Universidade Estadual Paulista, Sal Palo,  
Brazil.

**4. SERVICE**

**a. *University***

3/99	University of Maryland Senior University. Lecture, <i>Biological Theories of Aging.</i>
2000-2006	Department of Environmental Safety Compliance Officer.  Coordination of activities that support the University of Maryland's Environmental, Safety and Health Management Policy. Responsible for managing environmental, safety and health activities in the Department of Kinesiology, including the establishing processes, investigating complaints and incidents, and auditing performance.
2000-2006	Bioscience Research and Technology Review Day- Presenter
2005	Maryland/Children's National Medical Center Joint Research Symposium
2007	Temple University Office of the Vice President for Research and Graduate Studies Internal Advisory Research Committee
2007-2011	Center for Minority Health and Health Disparities Advisory Board member
2007	Interview, University Forum Radio Show, Temple University Public Radio Network. Hosted/Produced by Jean Moore, Ed.D.
2008	Interview, Temple Times. Exercise Reduces Cardiovascular Disease Risk after Menopause.
2008	Featured Speaker, Nutrition and Health Expo, Pi Rho Chapter of Alpha Phi Alpha Fraternity, Inc., Temple University.

- 2009 Mentor, Temple University Bridges Program. The Bridges Program is funded through NIH and provides assistance for students seeking college transfer success. Mentored two students at Philadelphia Community College (Hosie Tart and Daline Destin).
- 2009 Temple University Faculty Etiquette Panel Discussion. Anderson Hall, Moderator- Tamra Greer, Athletic Academic Advisor.
- 2009 Speaker, Bridges to Baccalaureate Program-NIH Sponsored, College of Science and Technology
- 2009 Temple University Graduate Fellows Research Symposium. Oral Presentations-Moderator/Faculty Discussant.
- 2010 Temple University Principal Investigator Faculty Banner Training Group, led by Michele Masucci, Ph.D., Director, Research Development - Temple Research Administration & Director, ITSRG - The Information Technology and Society Research Group Orientation.
- 2011 Temple University Alumnae Weekend presentation "You are as Old as Your Arteries: Taking Control of Your High Blood Pressure". April 16, 2011.
- 2010-2011 Temple University Research Advisory Committee, Sponsored Research Programs
- 2011 Temple University, Office of the Provost, Grant reviewers for proposals on Interdisciplinary Community Based Participatory Research in Violence Prevention and/or the Built Environment. March-April, 2011.
- 2011 Temple University Graduate Fellows Research Symposium. Oral Presentations-Moderator/Faculty Discussant.
- 2013 University of Illinois Board of Trustees special *Campus Insights* presentation showcasing "UIC Leading Innovation." Participated in a video production highlighting some of UIC's prominent faculty innovators.
- 2013 UIC African American New Student Brunch hosted by African American faculty.
- 2013 Reviewer, UIC Chancellor's Cluster Hire Initiative to Increase Diversity Proposals, administered by the Provost's Office.
- 2013 CCTS REACH Summer Program in Clinical and Translational Methods, Panel Discussant, Overcoming Research Pitfalls.
- 2013 Cluster Initiative Oversight Committee. Appointed by the Provost.

2013	Cluster Implementation Advisory Committee. Appointed by the Provost.
2015	UIC Office of the Vice Chancellor for Academic Affairs and Provost Leadership Retreat, Student Center West, Illinois Room.
2015	African American Community Advisory Council
2016-2017	Member, Vice Chancellor for Research, Research Integrity Inquiry Team

**b. College**

2002	Graduate Research Interaction Day. Presenter.
2004	Chair, Search Committee for Facilities Coordinator Position
2005	Search Committee Member, Chair, Department of Public and Community Health
2005	Search Committee Member, Faculty Position, Center on Aging
2006	Dean's Review Committee
2006	Search Committee, Faculty Position, Physical Therapy, College of Health Professions
2007	Interviewed Grant Administrator Pre- and Post-award candidates
2007	Interviewed postdoctoral Fellow candidates for Dr. Emily Keshner, Chair, Department of Physical Therapy
2007-2012	College of Health Professions, Merit Review Committee member
2008-2012	College of Health Professions, Promotion and Tenure Committee
2008	College of Health Professions, Graduate Council
2009	Alignment Task Force School of Social Science
2009-2010	Chair, Indirect Costs Committee
2010-2011	Merit Guidelines for Tenure Track Faculty Committee
2011	Head, Minimizing Health Disparities across the Lifespan Research Interest Group (MHD-RIG)
2012-2013	Member, Search Committee, Head, Department of Physical Therapy

2012-2017	UIC AHS, Promotion and Tenure Committee
2013	UIC, Member, Search Committee, Associate Dean for Research
2015-2017	UIC, College of Applied Health Sciences. Executive Committee
<b>c. Department</b>	
2000-2006	Mentor, Undergraduate Research Assistant Program (URAP)
	A volunteer program for students interested in research. Introduces undergraduates to the discipline and rewards of scholarly research. Students spend four to six hours a week working with or under the direction of a faculty mentor on that faculty member's own research and receive an Undergraduate Research Assistant notation on their transcript at the conclusion of the assistantship.
2000	Search Committee (Pedagogy Assistant Professor)
2000	Undergraduate Committee
1997-98	Search Committee (Department Chair)
2000-2006	Supervisor of Exercise Physiology Laboratory Complex
	Responsibilities include supervising the Exercise Physiology Laboratory budget, overseeing the general laboratory schedule, overseeing the care and maintenance of common equipment, and coordinating services to the public.
2000-2006	Supervisor of Exercise Physiology Teaching Assistants
	Oversaw the activities of the Teaching Assistant for the laboratory sections of the undergraduate course, Physiology of Exercise.
2002	Young Scholars Program. Lecture, <i>Hypertension, Genes, and Exercise</i> .
1998-2002	Member: Computer Committee
1998-2006	Member: Human Subjects Review Committee
2002	Member of a team of investigators that established a Memorandum of Understanding that established a collaboration between the Intramural Research Program of National Institute on Aging and the Department of Kinesiology to support and mentor doctoral students in exercise physiology and aging.
4/2003	KNES 289K Hippocratic Society Class: Presented research

2005-2006	Graduate Committee
2005	Search Committee Member, Faculty Position, Molecular Biologists
2006	Search Committee Member, Faculty Position, Department of Kinesiology/Center for Obesity Research and Education, Temple University
2007	Search Committee Member, Faculty Position, Department of Kinesiology/Center for Obesity Research and Education, Temple University
2007-2012	Chair, Personnel Committee, Department of Kinesiology
2012	Kinesiology and Nutrition, Promotion and Tenure Committee
2012-2013	Member, Search Committee, Assistant Professor of Neuroscience
2015	Round table guest speaker, KN SET Program
2016-2017	Chair, Department Head Search Committee
2018	Chair, Search Committee, Assistant/Associate Professor Exercise Physiology
<b>d. Community</b>	
1998-2005	Mentor, Montgomery Blair High School Magnet Program in Science, Mathematics, and Computer Science.
3/19/99-3/21/99	Judge, Medical Science and Health, Montgomery Area Science Fair Association.
1999-2006	Mentor, Biomedical Access Program (BIO MAP). Objective is to increase the number of disadvantaged groups in the biomedical fields.
6/99	12 <sup>th</sup> Annual Conference for African Americans in Higher Education. Lecture <i>Wellness Issues Facing the Minority Community in the Next Millenium.</i>
9/7-9/8/02	Black Family Reunion Celebration, National Council of Negro Women, Inc. <i>Hypertension Education and Blood Pressure Screening.</i>
9/19/02	Morgan State University's School of Computer, Mathematical, and Natural Sciences 4 <sup>th</sup> Annual Science Career Workshop. Panel Member- <i>Career Opportunities in Medicine, Biomedical Sciences, and Other Health-Related Careers.</i>
2002	Project Harvest. A Washington D.C. Food Drive for Thanksgiving. My laboratory group collected and donated nonperishable food items and volunteered at the site.

- 2002 Interviewed by The Plain Dealer Reporter as part of “Take a Friend to the Doctor Week” sponsored by national black radio stations.
- 2007 Interview, Philadelphia daily News, Philly Fitness and Health Podcast. Hosted/Produced by Kimberly Garrison.
- 2007 Interview, University Forum Radio Show, Temple University Public Radio Network. Hosted/Produced by Jean Moore, Ed.D.
- 2008 Martin Luther King Day of Service Health Fair, Germantown High School, Philadelphia, PA.
- 2008 Interview. MetroKids. Pennsylvania Family Resource Magazine. Co-Author, *Kids’ Strength Training Needs a Pro: Thinking Points*.
- 2009-2010 Public Access TV Show production. Community Enrichment Fitness Network’s (CEFN) *Focus on Fitness TV Program* – A partnership with Gwen Foster's 40 Day Journey program, with Dr. Michael Brown's Fit4Life Hypertension Program, and with Dr. Gary Foster's Childhood Obesity prevention program.
- 2010 Women’s Health Fair, Mercy Family Center, 1939 W. Venango Street, Philadelphia, PA; Sponsored by Temple University Health Systems.

**f. National**

- 6/06-Present American College of Sports Medicine, Diversity Action Committee. We developed and implemented a Leadership and Diversity Training Committee. The purpose of the ACSM Leadership & Diversity Training Program is to train ACSM professional members of racially and ethnically diverse backgrounds who hold a terminal degree to become ACSM leaders and Fellows. Each year we rigorously review applications and select awardees. We also plan symposia.
- 2011-present National Institutes of Health Loan Repayment Program (LRP) Ambassador. The Ambassador Network serves as a bridge between alumni and future participants, and offers opportunities for professional development. Ambassadors share their experiences with potential participants.
- 2013 Coalition of Urban Serving Universities (USU) Health Action Group; Member, Cultural Competency of Institutions Action Group. The purpose of these groups was to identify specific, actionable steps that will assist USU member campuses in pursuit of the Coalition’s strategic priorities and recommendations related to its health agenda.
- 2013-2017 Program Committee, North American Artery conference.

2015-2016 Grant writing Mentor, National Research Mentoring Network. Supported by the National Institute of General Medical Sciences U54GM119023.

2017-2020 American College of Sports Medicine Board of Trustees  
The American College of Sports Medicine is a nonprofit corporation. The administration of the corporation is conducted by a Board of Directors, the Board of Trustees and the Administrative Council.

2017-2020 American College of Sports Medicine, Nominating Committee.