

Brian L. Stauffer, MD, FACC

January 8, 2009

Research Address

Univ. of Colorado at Boulder
Integrative Vascular Biology Laboratory
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Univ. of Colorado Denver
Medicine/Cardiology
12700 E. 19th Ave, Rm 8011
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Hospital Address

Denver Health
777 Bannock Street, MS 0960
Dept. of Cardiology
Denver, CO 80204
Phone: 303-436-6251;

Education and Professional Experience:

Eastern Mennonite University, Harrisonburg, Virginia
Attendance: August 1987 through May 1991
Degree: Bachelor of Science in Biology, Minor in Computer Science,
Magna Cum Laude, GPA: 4.0, Class Rank: 1

The Pennsylvania State University College of Medicine, Milton S. Hershey Medical Center, Hershey, PA
Attendance: August 1991 through June 1993
June 1994 through May 1996
Degree: MD conferred May 19, 1996

Howard Hughes Medical Student Research Training Fellowship under the guidance of Dr. Russell L. Moore, Ph.D., Professor, Dept. of Kinesiology, University of Colorado at Boulder, and Dr. Joseph Y. Cheung M.D., Ph.D., Professor of Medicine & Cellular and Molecular Physiology, Penn State University, College of Medicine. June 1993 through June 1994.

Resident, Internal Medicine Training Program, University Hospitals of Cleveland, Cleveland, OH
Employment: June 1996 through June 1999
Board Eligible in Internal Medicine July 1, 1999
Board Certified in Internal Medicine October 1999

Clinical Fellow, Cardiology Fellowship Training Program, University of Colorado Health Sciences Center, Denver, CO
Employment: July 1999 through June 2005

Postdoctoral Fellow, University of Colorado at Boulder, Department of Molecular, Cellular and Developmental Biology.
Mentor: Leslie A. Leinwand, Professor and Chair, Department of Molecular, Cellular and Developmental Biology.
October 1999 through June 2004

Instructor, University of Colorado Health Sciences Center, Department of Medicine, Denver, CO
Employment: August 2000 through June 2005

Medical Director, University of Colorado at Boulder, Integrative Vascular Biology Laboratory. Department of Integrative Physiology.
Employment: August 2000 through Present

Graduate Faculty, University of Colorado at Boulder, Department of Integrative Physiology.
Employment: January 2003 through Present

Assistant Professor, Denver Health and University of Colorado at Denver and the Health Sciences Center, Department of Medicine, Division of Cardiology, Denver, CO.
Employment: July 2005 through Present

Assistant Professor Adjunct, University of Colorado at Boulder, Department of Integrative Physiology.
Employment: April 2006 through Present

Member, General Advisory Committee and Scientific Advisory Committee, Adult General Clinical Research Center, UCDHSC
Appointment: September 2005 through 2008

Member, Scientific Advisory Research Committee, Colorado Clinical Translational Sciences Institute, UCDHSC
Appointment: 2008 through present

Honors:

Board Certified in Cardiology (2005)
 Jacqueline Marie Leaffer CWHR Travel Award, UCHSC Center for Women's Health Research (2006)
 ASG/ASP/AHA T. Franklin William Scholar (2007-2009)
 Fellow, American College of Cardiology (2007)
 Travel Award, Donald W. Reynolds FD~AGE Consensus Conference on Developing Core Curricula in Geriatrics for
 Subspecialty Residents, Duke University School of Medicine (2007)
 Finalist, Northwestern Cardiovascular Young Investigators' Forum (2008)

Cardiology Fellowship

Board Certified in Internal Medicine (1999)
 Outstanding Research Fellow Award, (2000) Univ. of Colorado Health Sciences Center, Dept. of Cardiology
 Harvey Proctor fellowship award, (2001) American College of Cardiology
 Outstanding Research Fellow Award, (2001) Univ. of Colorado Health Sciences Center, Dept. of Cardiology
 Heart Failure Society of America Travel Grant, (2001)
 GSK Research & Education Foundation for Cardiovascular Disease, Travel Award, (2002)
 Heart Failure Society of America Travel Grant, (2002)
 Finalist, AstraZeneca Cardiovascular Young Investigators Forum (2003)
 Burroughs Wellcome Foundation/Howard Hughes Medical Institute Laboratory Management Course Travel Grant (2004)

Medical School

The Howard E. Morgan Award, (1996): For outstanding achievement in basic research
 The Merck Manual Award, (1996): For excellence in academic performance
 Basic Science Award, (1996): For the Annual Student Research Symposium
 Howard Hughes Medical Student Research Training Fellowship (1993-1994)

Undergraduate:

Menno Simons Scholarship, (1987-1991) Academic Excellence Award
 Lehman Scholarship, (1989-1990) Biological Science Achievement Award
 Collins Scholarship, (1990-1991) Biological Science Achievement Award
 Dean's List, (1987-1991)

Professional Organizations

American Physiological Society (1994-present)
 American College of Physicians/American Society of Internal Medicine (1997-present)
 American College of Cardiology (1999-present); Fellow (2007-present)
 American Heart Association (2001-present)

Service

Peer Reviewer for: The Journal of Applied Physiology, The American Journal of Physiology: Heart Circ; Endo and Metab.
 Doctoral Committee Member: Derek Smith, 2003; Greta Hoetzer, 2004; Gary VanGuilder, 2006; Craig Emter 2006
 Comprehensive Committee Member: Craig Emter, 2004; Gary VanGuilder, 2004; Andrew Edwards, 2007;
 Owen MacEaney, 2007; Christian Westby, 2008
 Education Committee, UCD HSC Cardiovascular Training Program 2006-present
 Co-Director: Cardiovascular Training Program Core Curriculum, UCD Div. of Cardiology, 2006-2007
 Director: Cardiovascular Training Program Core Curriculum, UCD Div. of Cardiology, 2007-present
 Guest Lecture: Graduate Seminar KAPH 6640 'Pathophysiology of Ischemic Heart Disease and Congestive Heart Failure'
 Guest Lecture: AED, the Undergraduate Medical Honors Society. Physician Career Description and Discussion
 Guest Lecture: Undergraduate MCDB Club. Career Panel Discussion
 Guest Lecture: Cardiology Research Conference, UCHSC, November 2007
 Guest Lecture: Wardenburg Health Center, CME. "Syncope, Palpitations, Chest Pain—Things that make students go bump
 in the night", March 2006
 Guest Lecture: Teachers minicourse. Molecular, Cellular and Developmental Biology, CU Boulder July 2006
 Guest Lecture: Junior League of Denver, "Preventing Heart Disease in Women", February 2007

Guest Lecture: Wardenburg Health Center, CME. "Critical review of the Literature", November 2007

Abstract Reviewer: American Federation for Medical Research, Western Regional Meeting, 2006-Present

Moderator: American Federation for Medical Research, Western Regional Meeting, Cardiovascular session, January 2008

Panelist: Introduction to Academic Careers, 4th Year Medical School Curriculum, UC Denver, February 2008

Cardiology Research Conference, February 2008

Guest Lecture: UCH Div. of Geriatrics, Research Conference, February 2008

Guest Lecture: American Aging Association, National Conference, "Aging, Exercise and Endothelial Fibrinolytic Function", June 2008

State-of-the-Art Lecture: Western Regional Meeting, "Exercise, Estrogen and Vascular Function", January 2009

Undergraduate Student Trainees

Laura Edgerley, MD

Jamie Schulz, DO

Molly Johnston

Erin McCarty

Current Position

Emergency Medicine Resident, Stanford University

Internal Medicine Resident, University of Cincinnati

Professional Research Assistant, National Jewish Medical Center

Undergraduate Student, University of Colorado Denver

Graduate Trainees

Derek Smith, PhD

Greta Hoetzer, PhD

Gary Van Guilder, PhD

Jane Nydam, MD

Shayanne Lajud

Current Position

Assistant Professor, University of Wyoming

Medical Information Officer, AstraZeneca

Postdoctoral Fellow, University of Colorado at Boulder

Pediatric Cardiology Fellow, The Children's Hospital, Denver

Medical Student, Pontificia Universidad Católica Madre y Maestra School of Medicine, Santiago, Dominican Republic

Research:

Pending:

Team Science Grant. Stauffer, PI

Agency: CCTSI

"Dietary Linoleic Acid Supplementation and Endothelial Function in Heart Failure"

The general aim of this project is a first in man study to determine whether dietary linoleic acid will improve vascular endothelial function in adults with impaired systolic function heart failure.

R21 HL097123. Stauffer, PI;

Period 7/1/09-6/30/11

NIH NHLBI

"Cardiac Beta-Adrenergic Adaptation in Pediatric Heart Failure"

The general aim of this project is to determine whether the beta-adrenergic receptor changes in response to heart failure are similar between children and adults.

Research Projects Ongoing:

Beginning Grant-in-Aid. Stauffer, PI

Period 7/1/07-6/30/09

Agency: American Heart Association

"Vascular Benefits of Ascorbic Acid in Older Adults with the Metabolic Syndrome"

The general aim of this project is to determine if endothelial t-PA release is impaired in older adults with the metabolic syndrome and if oral vitamin C therapy can improve endothelial function in this population as much as or more than aerobic exercise.

R21 HL88911. DeSouza, PI (Stauffer, Consultant)

Period 7/1/07-6/30/09

Agency: NIH NHLBI

"HIV-1 Infection and Endothelial t-PA Release"

The general aim of this project is to determine whether HIV-1 infection impairs endothelial t-PA release in adult humans.

K08 HL080212. Stauffer, PI

Period 2/1/07 – 1/31/12

Agency: NIH NHLBI

"Diet, Sex Steroids, and Cardiomyopathy"

The general aim of this project is to determine the mechanism behind the effect of sex and diet on sex-dependent differences in hypertrophic cardiac disease in a mouse model.

RO1 HL077450 DeSouza, PI (Stauffer, Consultant)

Period 7/1/04-6/30/08

NIH NHLBI

"Aging, Exercise, and Endothelin-1 Vasoconstrictor Tone"

The general aim of this project is to determine whether there is an increase in endothelin-1 vasoconstrictor activity associated with aging and whether physical activity improves the endothelial dysfunction associated with increased endothelin-1.

RO1 HL076434 DeSouza, PI (Stauffer, Consultant) Period 6/1/04-5/31/09
NIH NHLBI

“Obesity/Insulin Resistance, Vitamin C and Endothelin-1”

The general aim of this project is to determine whether there is an increase in endothelin-1 vasoconstrictor activity associated with obesity/insulin resistance and whether antioxidant therapy is comparable to physical activity in improving the endothelial dysfunction associated with increased endothelin-1.

Research Projects Completed:

R01 HL075752 Annex, PI (Stauffer, Consultant) Period 9/25/03-7/31/08
NIH NHLBI

“Angiogenesis and Mechanisms of Exercise Training in PAD”

The general aim of this project is to determine the impact of exercise training on peripheral arterial disease.

Pathway Medical Technologies Research Award. Stauffer, PI Period 7/1/06-12/30/07
Pathway Medical Technologies, Inc.

“Feasibility of Molecular Plaque Analysis”

The general aim of this project is to determine whether peripheral vascular plaque samples obtained by a percutaneous atherectomy device can be utilized to identify vascular gene and protein expression.

UO1 HL079160 Havrenek, PI DHHA, Steiner, PI UCHSC (Stauffer, Consultant) Period 9/1/04-8/31/09
NIH NHLBI

“Latinos Using Cardio Health Actions to Reduce Risk”

The general aim of this project is to improve the primary prevention of cardiovascular disease in Hispanics.

CFAR Pilot Project Award. DeSouza, PI (Stauffer, Co-I) Period 7/1/06-6/30/07
Agency: Colorado Center for Aids Research

“HIV-1 and Endothelial Progenitor Cells”

The general aim of this project is to determine whether HIV-1 impairs endothelial progenitor cell number and function in adult humans.

RO1 HL068030 DeSouza, PI (Stauffer, Co.I.) Period: 8/1/02-7/31/06
NIH NHLBI/NIDDK

Direct Costs: \$225,000/yr

“Endothelial Abnormalities in Obesity/Insulin Resistance”

The general aim of this project is to determine if the decline in endothelial vasodilatory response to acetylcholine that is seen in the obese/insulin resistant population is due to a specific agonist related defect or a more general endothelial vasodilator abnormality.

NIH Loan Repayment Award. Stauffer, PI Period: 06/01/03-5/31/05
Agency: NIH NHLBI

“Obesity/Insulin Resistance and Endothelial Dysfunction”

The general aim of this project is to determine if the decline in endothelial vasodilatory response to acetylcholine that is seen in the obese/insulin resistant population is due to a specific agonist related defect or a more general endothelial vasodilator abnormality.

Clinical Research Award. DeSouza PI (Stauffer, Co.I.) Period: 7/1/02-6/30/05
American Diabetes Association

Direct Costs: \$100,000/yr

“Effects of Vitamin C Supplementation on Endothelial Function in Obese/insulin Resistant Adults”

The general aim of this project is to determine if oxidative stress contributes to the endothelial vasodilator abnormalities in the obese/insulin resistant population.

Postdoctoral Fellowship. Stauffer, PI Period: 07/01/01-06/30/04
Agency: American Heart Association

“The Effect of Gender on Hypertrophic Cardiac Disease”

The general aim of this project is to determine if sex hormones contribute to the development of specific phenotypes of Hypertrophic Cardiomyopathy in a mouse model of the clinical disease.

R03 AG023857. DeSouza, PI (Stauffer, Co.I) Returned in lieu of RO1 HL077450

NIH NIA

“Human Aging and Endothelin-1 Vasoconstrictor Activity”

The general aim of this project is to collect pilot data regarding the effect of endothelin-1 on the vascular endothelium with age in healthy men and women.

RO3 DK62061. DeSouza, PI (Stauffer, Co.I.)

Period: 8/1/02-7/31/04

NIH NIDDK

“Obesity/Insulin Resistance and Endothelial t-PA Release”

The general aim of this project is to determine whether there is a decline in endothelial tissue plasminogen activator release in the obese/insulin resistant population and whether this hypothesized decline can be reversed with acute antioxidant therapy.

Grant-In-Aid. DeSouza, PI (Stauffer, Co.I.)

Period: 7/1/02-6/30/04

American Heart Association

“Hormone Replacement and Fibrinolytic Capacity of the Vascular Endothelium”

The general aim of this project is to determine the effect of estrogen and estrogen receptor polymorphisms on the capacity of the vascular endothelium to release tissue plasminogen activator.

Clinical Research Award. DeSouza, PI (Stauffer, Medical Director)

Period: 7/1/99-6/30/02

American Diabetes Association

“Effects of Exercise on Vascular Endothelial Health and Function in Older Obese/Insulin Resistant Adults”

The general aim of this project was to determine if regular aerobic exercise increases tonic and stimulated endothelial nitric oxide bioavailability and improves hemostatic function in older obese/insulin resistant adults

Beginning Grant-in-Aid. DeSouza, PI (Stauffer, Medical Director)

Period: 7/1/00-6/30/02

American Heart Association

“Aging, Regular Physical Activity and Fibrinolytic Capacity of the Endothelium”

The general aim of this project was to determine if aging causes a decline in endothelial t-PA production sedentary and physically active adults.

Postdoctoral Research Fellowship. Stauffer, PI

Period: 6/1/01-5/31/02 Returned: 6/30/01

NIH/NHLBI “The Effect of Gender on Hypertrophic Cardiac Disease”

The general aim of this project was to determine if sex hormones contribute to the development of specific phenotypes of Hypertrophic Cardiomyopathy in a mouse model of the clinical disease.

Publications

Kushner, E, GP Van Guilder, OJ MacEneaney, JN Cech, BL Stauffer, CA DeSouza. Aging is Associated with Reduced Endothelial Progenitor Cell Telomere Length in Healthy Men, *Clinical Chemistry and Laboratory Medicine*, 47: 47-50, 2009.

Stauffer, BL, EJ Kushner, T Wulfman, T Zeller, R Sobus, CM Westby. Transcriptional Regulation of β 2-Microglobulin Demonstrated Via a Novel Genomic and Proteomic Analysis of Percutaneously Collected Peripheral Atheroma. *Clinical and Translational Science*, 1:240-244, 2008.

Stauffer, BL, OJ MacEneaney, EJ Kushner, JN Cech, JJ Greiner, CM Westby, CA DeSouza. Gender and Endothelial Progenitor Cell Number in Middle-Aged Adults. *Artery Research*, 2:156-160, 2008.

Van Guilder, GP, GL Hoetzer, JJ Greiner, BL Stauffer and CA DeSouza. Acute and chronic effects of vitamin C on endothelial fibrinolytic function in overweight and obese adult humans, *J. Physiol.*, 586:3525-3535, 2008.

Stauffer, BL, CM Westby, CA DeSouza. Endothelin-1, Aging and Hypertension. *Current Opinions in Cardiology*, 23:350-355, 2008.

Van Guilder, GP BL Stauffer, JJ Greiner, and CA DeSouza. Impaired Endothelium-Dependent Vasodilation in Overweight and Obese Adult Humans is not Limited to Muscarinic Receptor Agonists, *American Journal of Physiology:Heart*, 294:H1685-H1692, 2008.

Van Guilder, GP, GL Hoetzer, JJ Greiner, BL Stauffer and CA DeSouza. Metabolic Syndrome and Endothelial Fibrinolytic Capacity in Obese Adults, *American Journal of Physiology:Regul Integr Comp Physiol*, 294:R39-44, 2008.

Van Guilder, GP, C Westby, JJ Greiner, BL Stauffer and CA DeSouza. Endothelin-1 Vasoconstrictor Tone Increases with Age in Healthy Men but can be Reduced by Regular Aerobic Exercise. *Hypertension*, 50:403-409, 2007.

Hoetzer, GL, GP Van Guilder, HM Irmiger, RS Keith, BL Stauffer, CA DeSouza. Aging, Exercise and Endothelial Progenitor Cell Colonogenic and Migratory Capacity in Men. *Journal of Applied Physiology*, 102:847-852, 2007.

Hoetzer, GL, OJ MacEneaney, HM Irmiger, R Keith, GP Van Guilder, BL Stauffer, CA DeSouza. Gender Differences in Circulating Endothelial Progenitor Cell Colony-Forming Capacity and Migratory Activity in Middle-Aged Adults. *American Journal of Cardiology*, 99:46-48, 2007.

Van Guilder, GP, GL Hoetzer, JJ Greiner, BL Stauffer and CA DeSouza. Influence of Metabolic Syndrome on Biomarkers of Oxidative Stress and Inflammation in Obese Adults. *Obesity(Silver Spring)*, 14:2127-2131, 2006.

Van Guilder, GP, GL Hoetzer, DR Dengel, BL Stauffer and CA DeSouza. Impaired Endothelium-Dependent Vasodilation in Normotensive and Normoglycemic Obese Adult Humans. *Journal of Cardiovascular Pharmacology*, 47: 310-313, 2006.

Konhilas, JP, PA Watson, A Maass, DM Boucek, T Horn, BL Stauffer, SW Luckey, P Rosenberg, LA Leinwand. Exercise can prevent and reverse the severity of hypertrophic cardiomyopathy. *Circulation Research*, 98: 540-548, 2006.

Stauffer, BL, JP Konhilas, ED Luczak, LA Leinwand. Soy diet worsens heart disease in mice. *The Journal of Clinical Investigation*, 116(1): 209-216. 2006.

Van Guilder, GP, DT Smith, GL Hoetzer, BL Stauffer and CA DeSouza. Endothelial t-PA release is impaired in overweight adults but can be improved by regular aerobic exercise. *American Journal of Physiology:Endo*, 289(5): E807-13, 2005.

DeSouza, CA, GP Van Guilder, JJ Greiner, DT Smith, GL Hoetzer, BL Stauffer. Basal endothelial nitric oxide release is preserved in overweight and obese adults. *Obesity Research*, 13(8): 1303-6, 2005.

Hoetzer, GL, GP Van Guilder, BL Stauffer, CA DeSouza. Estrogen receptor-alpha TA-repeat polymorphism and endothelial fibrinolytic regulation in postmenopausal women. *American Journal of Obstetrics and Gynecology*, 193/2: 366-370, 2005.

Stauffer, BL, GL Hoetzer, GP Van Guilder, CA DeSouza. Sex-differences in endothelial t-PA release in middle-aged adults. *Journal of the American College of Cardiology*, 45(9): 1547-1549, 2005

Konhilas, JP, SW Luckey, A Maass, K Ikeda, BL Stauffer, EN Olson, LA Leinwand. Sex modifies exercise and cardiac adaptation in the mouse. *American Journal of Physiology: Heart and Circulatory Physiology*, 287: H2768-76, 2004.

Olsson, MC, BM Palmer, BL Stauffer, LA Leinwand, RL Moore. Morphological and functional alterations in ventricular myocytes from male transgenic mice with hypertrophic cardiomyopathy. *Circulation Research*, 94: 201-207, 2004.

Stauffer BL, DT Smith, GL Hoetzer, JJ Greiner, CA DeSouza. Plasma C-reactive protein is not elevated in physically active postmenopausal women taking hormone replacement therapy. *Journal of Applied Physiology*, 96: 143-148, 2004.

Hoetzer GL, BL Stauffer, HM Irmiger, M Ng, DT Smith, CA DeSouza. Acute and chronic effects of oestrogen on endothelial tissue-type plasminogen activator release in postmenopausal women. *Journal of Physiology*, 551.2:721-728, 2003.

Smith, DT, GL Hoetzer, JJ Greiner, BL Stauffer, CA DeSouza. Endothelial release of tissue-type plasminogen activator in the human forearm: role of nitric oxide. *Journal of Cardiovascular Pharmacology*; 42(2):311-314, 2003.

Smith, DT, GL Hoetzer, JJ Greiner, BL Stauffer, CA DeSouza. Effects of ageing and regular aerobic exercise on endothelial fibrinolytic capacity in humans. *Journal of Physiology*, 546.1:289-298, 2003.

Hoetzer, GL, BL Stauffer, JJ Greiner, Y Casas, DT Smith, CA DeSouza. Influence of oral contraceptive use on endothelial t-PA release in healthy premenopausal women. *American Journal of Physiology:Endo*, 284:E90-E95, 2003.

Capell, WH, CA DeSouza, P Poirier, ML Bell, BL Stauffer, KM Weil, TL Hernandez, RH Eckel. Short-term triglyceride lowering with fenofibrate improves vasodilator function in subjects with hypertriglyceridemia. *Arterioscler. Thromb. Vasc. Biol.*, 23:307-313, 2003.

Maass, A, JP Konhilas, BL Stauffer, LA Leinwand. From sarcomeric mutations to heart disease: understanding familial hypertrophic cardiomyopathy. *Cold Spring Harbor Symposium on Quantitative Biology: The Cardiovascular System*, 67:409-415, 2002.

Petersen, HH, J Choy, B Stauffer, FM Afshari, C Aalkjaer, L Leinwand, B McManus, I Laher. Coronary artery myogenic response in a genetic model of hypertrophic cardiomyopathy. *Am. J. Physiology:Heart*, 283:H2244-2249, 2002.

DeSouza CA, CM Clevenger, JJ Greiner, DT Smith, GL Hoetzer, LF Shapiro, BL Stauffer. Evidence for agonist specific endothelial vasodilator dysfunction with ageing in healthy humans. *Journal of Physiology*, 542.1: 255-262, 2002.

Dinno FA, H Tanaka, B Stauffer and DR Seals. Reductions in Basal Limb Blood Flow and Vascular Conductance with Human Ageing: Role for Augmented Alpha-Adrenergic Vasoconstriction. *Journal of Physiology*, 536.3:977-983, 2001.

Lankford, E, DH Korzick, BM Palmer, BL Stauffer, JY Cheung, RL Moore. Chronic exercise alters the contractile responsiveness of rat myocardium to extracellular Na^+ , and Ca^{2+} . *Med. Sci. Sports Exerc.*, 30(10):1502-9, 1998.

Stauffer, BL, BM Palmer, JY Cheung, RL Moore. Hypertension alters rapid cooling contractures in single rat cardiocytes. *Am. J. Physiology*, 272(3 Pt. 1):C1000-6, 1997.

Book Chapters

Stauffer BL and LA Leinwand. 'Sex-differences in cardiac muscle and remodeling'. Principles of Sex-Based Differences in Physiology. Virginia Miller and Meredith Hay, Ed., *Advances in Molecular and Cell Biology*, Vol. 34, Chapter 10, pg. 131-145, 2004.

Abstracts/Presentations

Stauffer, BL, GP Van Guilder, JJ Greiner, CA DeSouza. Metabolic Syndrome Impairs Endothelial Tissue-type Plasminogen Activator (t-PA) Release in Older Adults. Presented at the Northwestern Cardiovascular Young Investigators' Forum, October 4, 2008.

Stauffer BL, R Sobus. Sex Differences in Connexin 43 in a Model of Pathologic Hypertrophy. *Circulation Research*, 103:e45, 2008. Presented at the 2008 American Heart Association Basic Cardiovascular Sciences Conference: *Heart Failure: Molecular Mechanisms and Therapeutic Targets*.

Stauffer, BL, GP Van Guilder, JJ Greiner, CA DeSouza. Metabolic Syndrome and Endothelial Tissue-type Plasminogen Activator (t-PA) Release in Older Adults. Presented at the Williams Symposium at the American Geriatrics Society Annual meeting, Washington DC, May 2008.

EJ Kushner, GL Hoetzer, OJ MacEneaney, JJ Greiner, JN Cech, BL Stauffer, CA DeSouza. Aging and EPC release of proangiogenic factors. *FASEB Journal*. 22: 746.11. Presented at the annual Experimental Biology meeting, San Diego, CA 2008.

EJ Kushner, GP Van Guilder, OJ MacEneaney, JN Cech, AJ Zaug, BL Stauffer, CA DeSouza. Shortened telomere length in endothelial progenitor cells with age. *Arteriosclerosis, Thrombosis and Vascular Biology*, 28:e105, 2008. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Atlanta, GA, 2008.

EJ Kushner, RG Morgan, JN Cech, CM Westby, JJ Greiner, BL Stauffer, CA DeSouza. Aging is associated with a proapoptotic endothelial progenitor cell phenotype. *Arteriosclerosis, Thrombosis and Vascular Biology*, 28:e140, 2008. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Atlanta, GA, 2008.

OJ MacEneaney, EJ Kushner, CM Westby, JJ Greiner, JN Cech, BL Stauffer, CA DeSouza. Influence of adiposity on endothelial progenitor cell number and clonogenic capacity. *Arteriosclerosis, Thrombosis and Vascular Biology*, 28:e145, 2008. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Atlanta, GA, 2008.

GP Van Guilder, OJ MacEneaney, CM Westby, EJ Kushner, JJ Greiner, BL Stauffer, CA DeSouza. Prehypertension and circulating endothelial progenitor cell function. *Arteriosclerosis, Thrombosis and Vascular Biology*, 28:e146, 2008. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Atlanta, GA, 2008.

Van Guilder GP, CM Westby, JJ Greiner, BL Stauffer, CA DeSouza. Prehypertension and endothelium-dependent vasodilation. *Vascular Medicine*, 13:26, 2008. Presented at the annual meeting of the Society for Vascular Medicine, Minneapolis, MN, 2008.

Westby CM, GP Van Guilder, JJ Greiner, BL Stauffer, CA DeSouza. ET-1 mediated vasoconstrictor tone is equally elevated in overweight and obese adults. *Vascular Medicine*, 13:31, 2008. Presented at the annual meeting of the Society for Vascular Medicine, Minneapolis, MN, 2008.

Miyamoto, SD, P Lampe, BD Sobus, JE Nydam, BL Stauffer. Myocardial Gene Expression in Children with Dilated Cardiomyopathy. Presented at the AHA The Scientific Basis of Heart Failure in Children Conference, May 2008.

Stauffer, BL, R Sobus, E Kushner, C Westby, S Lajud, T Zeller, T Wulfman, CA DeSouza. Feasibility of molecular analysis of percutaneously collected peripheral atheroma, *American Journal of Cardiology*. *The American Journal of Cardiology*. 100(8):Suppl.: 83L, Presented at the Transcatheter Cardiovascular Therapeutics annual conference, Washington DC, October, 2007.

Stauffer, B, O MacEneaney, G Hoetzer, E Kushner, J Cech, C Westby, C DeSouza. Gender and Circulating Endothelial Progenitor Cell Number and Apoptosis. *Sex and Gender in Cardiovascular-Renal Physiology and Pathophysiology*, Austin, TX, August, 2007.

Konhilas, JP, ED Luczak, TH Cheung, BL Stauffer, LA Leinwand. Plant estrogens in the rodent diet negatively impact genetic heart disease in males. *Circulation Research*, 2007. Presented at the American Heart Association conference, Keystone CO, 2007.

MacEneaney OJ, GL Hoetzer, HM Irmiger, J Stoner, C Westby, JJ Greiner, BL Stauffer, CA DeSouza. Aging, Exercise and Endothelial Progenitor Cell Apoptosis. *Circulation*, 115, e257:P137, 2007. Presented at the American Heart Association 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Orlando FL, 2007.

Westby C, GP Van Guilder, JJ Greiner, Y Casas, BL Stauffer, CA DeSouza. Endothelin-1 vasoconstrictor activity contributes to impaired acetylcholine-mediated vasodilation in obesity. *Circulation*, 115, e242:091, 2007. Presented at the American Heart Association 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Orlando FL, 2007.

Van Guilder GP, GL Hoetzer, JJ Greiner, BL Stauffer and CA DeSouza. Influence of the metabolic syndrome on endothelium-dependent vasodilation in obese adults. Presented at the Metabolic Syndrome/metabolic risks: Implications for diabetes and cardiovascular risk reduction symposia, San Francisco CA, 2006, 57, P-11.

Van Guilder GP, GL Hoetzer, CM Westby, JJ Greiner, YG Casas, BL Stauffer, and CA DeSouza. Effects of vitamin C supplementation on endogenous endothelin-1 vasoconstrictor activity in overweight/obese adults. Presented at the Society for Vascular Medicine and Biology annual Scientific Sessions, Philadelphia, PA, 2006.

Westby CM, GP Van Guilder, JJ Greiner, YG Casas, BL Stauffer, and CA DeSouza. Endothelin receptor blockade improves endothelium-dependent vasodilation in older men. Presented at the Society for Vascular Medicine and Biology annual Scientific Sessions, Philadelphia, PA, 2006.

Van Guilder GP, JJ Greiner, Y Casas, BL Stauffer, CA DeSouza. Greater oxidative stress and inflammatory burden in obese adults with the metabolic syndrome. *Arteriosclerosis, Thrombosis and Vascular Biology*, 26(5):e84, p179, 2006. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Denver, CO, 2006.

Van Guilder GP, CM Westby, GL Hoetzer, JJ Greiner, Y Casas, BL Stauffer, DeSouza CA. Regular aerobic exercise alleviates the age-related increase in endothelin-1 mediated vasoconstrictor tone. *Arteriosclerosis, Thrombosis and Vascular Biology*, 26(5):e99, p204, 2006. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Denver, CO, 2006.

Van Guilder GP, GL Hoetzer, JJ Greiner, Y Casas, BL Stauffer, DeSouza CA. Vitamin C supplementation improves endothelial t-PA release in obese adults. *Arteriosclerosis, Thrombosis and Vascular Biology*, 26(5):e103, p280, 2006. Presented at the annual Arteriosclerosis, Thrombosis and Vascular Biology meeting, Denver, CO, 2006.

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