
Education

Eastern Mennonite University, Harrisonburg, Virginia Degree: Bachelor of Science in Biology, Minor in Computer Science,	Aug. 1987 - May 1991
The Pennsylvania State University College of Medicine, Milton S. Hershey Medical Center, Hershey, PA	Aug. 1991 - June 1993 June 1994 - May 1996
Howard Hughes Medical Student Research Training Fellowship Penn State University, College of Medicine.	June 1993 - June 1994
Resident, Internal Medicine Training Program, University Hospitals of Cleveland, Cleveland, OH	June 1996 - June 1999
Clinical Fellow, Cardiology Fellowship Training Program, University of Colorado Health Sciences Center, Denver, CO	July 1999 - June 2005
Postdoctoral Fellow, University of Colorado at Boulder, Department of Molecular, Cellular and Developmental Biology.	Oct. 1999 - June 2004

Board Certification

Board Certified in Internal Medicine	1999
Board Certified in Cardiology	2005

Honors

Menno Simons Scholarship, Academic Excellence Award	1987-1991
Lehman Scholarship, Biological Science Achievement Award	1989-1990
Collins Scholarship, Biological Science Achievement Award	1990-1991
Dean's List	1987-1991
The Howard E. Morgan Award, for outstanding achievement in basic research	1996
The Merck Manual Award, for excellence in academic performance	1996
Basic Science Award, for the Annual Student Research Symposium	1996
Howard Hughes Medical Student Research Training Fellowship	1993-1994
Outstanding Research Fellow Award, Univ. of Colorado Health Sciences Center, Dept. of Cardiology	2000
Harvey Proctor fellowship award, American College of Cardiology	2001
Outstanding Research Fellow Award, Univ. of Colorado Health Sciences Center, Dept. of Cardiology	2001
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
AstraZeneca Cardiovascular Young Investigators Award	2003

Publications

1. Luczak, ED, **BL Stauffer**, JP Konhilas, TH Cheung and LA Leinwand. Remodeling the genetic landscape with diet. In review. Nature Medicine.
2. 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. InPress. Circulation Research.
3. Van Guilder, GP, GL Hoetzer, Donald R. Dengel, **BL Stauffer** and CA DeSouza. Impaired Endothelium-Dependent Vasodilation in Normotensive and Normoglycemic Obese Adult Humans. In Press. Journal of Cardiovascular Pharmacology.
4. **Stauffer, BL**, JP Konhilas, ED Luczak, LA Leinwand. Soy worsens heart disease in mice. The Journal of Clinical Investigation, 116(1):209-216. 2006.

5. 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.
6. 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.
7. 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.
8. **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
9. 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.
10. 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.
11. **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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.

19. 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.
20. Dinunno 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.
21. 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 Ca²⁺. *Med. Sci. Sports Exerc.*, 30(10):1502-9, 1998.
22. **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:

1. **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.

Funded Research

Applications Pending:

1. R01 Stauffer, PI
Agency: NIH NHLBI
"Sex Steroids and Pathologic Cardiac Growth"
The general aim of this project is to determine whether sex steroids influence pathologic cardiac growth in a sex specific fashion via a sex steroid receptor mediated mechanism.
2. K08 HL080212-01A2 Stauffer, PI
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.
3. Scientist Development Grant
Agency: American Heart Association
"Sex Steroids and Cardiomyopathy"
The general aim of this project is to determine if estrogen influences pathologic cardiac growth through estrogen receptors in a sex specific manner.
4. Beginning Grant-in-Aid
Agency: American Heart Association
"Sex Steroids and Cardiomyopathy"
The general aim of this project is to determine if estrogen influences pathologic cardiac growth through estrogen receptors in a sex specific manner.

Research Projects Ongoing or Completed During the Last 3 Years:

1. RO1 HL077450-01 DeSouza, PI (Stauffer, Co.I; Subcontract PI)
Period 7/1/04-6/30/08
NIH NHLBI
Direct Costs: \$250,000/yr (sub: \$30,000)
"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.

2. RO1 HL076434-01 DeSouza, PI (Stauffer, Co.I; Subcontract PI)
Period 6/1/04-5/31/09
NIH NHLBI
Direct Costs: \$225,000/yr (sub: \$45,000)
"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.
3. RO1 HL068030-01 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.
4. UO1 HL079160-01. Havrenek, PI DHHA, Steiner, PI UCHSC (Stauffer, Co.I.)
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.
5. 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.
6. 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.
7. 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.
8. R03 AG023857-01 DeSouza, PI (Stauffer, Co.I)
Returned in lieu of RO1 HL077450-01
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.

9. 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.
10. 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.
11. “Effects of Exercise on Vascular Endothelial Health and Function in Older Obese/Insulin Resistant Adults”
Principal Investigator: Christopher A. DeSouza, Ph.D. (Stauffer, Medical Director)
Agency: American Diabetes Association
Type: Clinical Research Award
Period: 7/1/99-6/30/02
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
12. “Aging, Regular Physical Activity and Fibrinolytic Capacity of the Endothelium”
Principal investigator: Christopher A. DeSouza, Ph.D. (Stauffer, Medical Director)
Agency: American Heart Association
Type: Beginning Grant-in-Aid
Period: 7/1/00-6/30/02
The general aim of this project was to determine if aging causes a decline in endothelial t-PA production sedentary and physically active adults.
13. “The Effect of Gender on Hypertrophic Cardiac Disease”
Principal Investigator: Brian L. Stauffer, M.D.
Agency: NIH/NHLBI
Type: Postdoctoral Research Fellowship
Period: 6/1/01-5/31/02 Returned: 7/1/01
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.