

CURRICULUM VITAE

DONALD R. DENGEL, Ph.D.

University of Minnesota

School of Kinesiology

1900 University Avenue S.E.

Minneapolis, MN 55455

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Tel.: 612-626-9701

FAX: 612-625-8867

E-mail: denge001@umn.edu

PERSONAL

Born November 11, 1960 in Sparta, Wisconsin – married to Jana Landkammer – two children (Olivia and Maya)

EDUCATION

- 1987-1990 University of Georgia, Athens, Georgia; Ph.D. (Exercise/Applied Physiology)
- 1984-1986 Ball State University, Muncie, Indiana; M.A. (Exercise/Applied Physiology)
- 1979-1984 University of Wisconsin, LaCrosse, Wisconsin; B.S. (magna cum laude, Double Major, Honors in Physical Education and Health Education)

POSTDOCTORAL TRAINING

- 1990-1994 National Institute of Aging Postdoctoral Research Fellow, Division of Gerontology, University of Maryland School of Medicine, Baltimore, Maryland (Laboratories of Drs. Andrew P. Goldberg and James M. Hagberg)

ACADEMIC APPOINTMENTS

- 2009-present Director, Human Performance Core, Clinical and Translational Science Institute, University of Minnesota
- 2007-present Member, Cancer Center, University of Minnesota
- 2007-present Senior Member, Nutrition Graduate Program, University of Minnesota
- 2006-present Adjunct Associate Professor, Department of Pediatrics, University of Minnesota
- 2003-2009 Co-director, Body Composition Human Performance Core, General Clinical Research Center, University of Minnesota
- 2003-present Associate Professor, School of Kinesiology, University of Minnesota
- 2000-2003 Assistant Professor, School of Kinesiology, University of Minnesota
- 2000-present Health Scientist, Research Service, Minneapolis VAMC
- 1996-2000 Faculty Associate, Institute of Gerontology, University of Michigan
- 1995-2000 Assistant Research Scientist, Department of Internal Medicine, University of Michigan
- 1995-2000 Adjunct Assistant Professor, Division of Kinesiology, University of Michigan
- 1995-2000 Research Scientist, Geriatric Research Education and Clinical Center, Ann Arbor VA Medical Center
- 1994-1995 Research Associate, Division of Gerontology, University of Maryland School of Medicine

HONORS AND AWARDS

2008	Fellow, American Heart Association, Council on Nutrition, Physical Activity and Metabolism
1997	New Investigator Award, American College of Sports Medicine
1994	Fellow, American College of Sports Medicine
1991	National Research Service Award from NIH (NRSA)
1984	Magna Cum Laude, University of Wisconsin-La Crosse
1983	Sigma Zeta National Science Honor Society

RESEARCH ACTIVITIES

BIBLIOGRAPHY

Peer-Reviewed Publications

1. Bosch TA, Kaufman CL, Williamson EB, Duprez DA, **Dengel DR**: Comparison of changes in heart rate variability and blood pressure during nitroglycerin administration and head-up tilt testing. *Clinical Autonomic Research* 19:46-50, 2009.
2. Olson TP, Tracy J, **Dengel DR**: Relationship between ventilatory threshold and cerebral blood flow during maximal exercise in humans. *Open Sports Medicine Journal* 3:9-13, 2009.
3. Thomas IH, Donohue JE, Ness KK, **Dengel DR**, Baker KS, Gurney JG: Bone mineral density in young adult survivors of acute lymphoblastic leukemia. *Cancer* 113:3248-3256, 2008.
4. Williamson EB, Bronas UG, **Dengel DR**: Automated edge detection versus manual edge measurement in analysis of brachial artery reactivity: a comparison study. *Ultrasound in Medicine and Biology* 34:1499-1503, 2008.
5. Thelen MA, Kelly AS, Williamson EB, **Dengel DR**: Examining the time course of endothelium -independent dilation by nitroglycerin. *Ultrasound in Medicine and Biology* 34:1217-1220, 2008.
6. Kaufman CL, Kaiser DR, Kelly AS, Dengel JL, Steinberger J, **Dengel DR**: Diet revision in overweight children: Effect on autonomic and vascular function. *Clinical Autonomic Research* 18:105-108, 2008.
7. Olson TP, Tracy JE, **Dengel DR**: Validity of a low-flow pneumotach and portable metabolic measurement system. *Open Sports Medicine Journal* 2:23-27, 2008.
8. **Dengel DR**, Ness KK, Glasser SP, Williamson EB, Baker KS, Gurney JG: Endothelial Function In Young Adult Survivors Of Childhood Acute Lymphoblastic Leukemia. *Journal of Pediatric Hematology Oncology* 30:20-25, 2008.
9. **Dengel DR**, Brown MD, Ferrell RE, Reynolds TH, Supiano MA: Renal hemodynamic and blood pressure responses to dietary sodium are associated with the t-786c endothelial nitric oxide synthase gene. *Physiological Research* 56:393-401, 2007.

10. Ness KK, Baker KS, **Dengel DR**, Youngren N, Sibley S, Mertens AC, Gurney JG: Body composition, muscle strength deficits, and mobility limitations in adult survivors of childhood acute lymphoblastic leukemia. *Pediatric Blood & Cancer* 49:975-981, 2007.
11. Borer KT, Fogleman K, Gross MM, La New JM, **Dengel DR**: Walking intensity for postmenopausal bone mineral preservation and accrual. *Bone* 41:713-721, 2007.
12. Huck CJ, Bronas UG, Williamson EB, Draheim CC, Duprez DA, **Dengel DR**: Noninvasive measurements of arterial stiffness: Repeatability and interrelationships with endothelial function and arterial morphology measures. *Journal of Vascular Health* 3(3):343-349, 2007.
13. Olson TP, **Dengel DR**, Leon AS, Schmitz KH: I Changes in inflammatory biomarkers following one-year of moderate resistance training in overweight women. *International Journal of Obesity* 31:996-1003, 2007.
14. Kaufman CL, Kaiser DR, Steinberger J, **Dengel DR**: Relationships between heart rate variability, vascular function, and adiposity in children. *Clinical Autonomic Research* 17(3):165-171, 2007.
15. Kelly AS, Steinberger J, Olson TP, **Dengel DR**. In the absence of weight loss, exercise training does not improve adipokines or oxidative stress in overweight children. *Metabolism* 56:1005-1009, 2007.
16. Kaufman C, Kelly AS, Kaiser DR, Steinberger J, **Dengel DR**: Aerobic-exercise training improves ventilatory efficiency in overweight children. *Pediatric Exercise Science* 19:82-92, 2007.
17. Reynolds TH, Supiano MA, **Dengel DR**: Differences in Glucose Clearance: The effects of insulin and resistance training on arm and leg glucose clearance in older hypertensive individuals. *Journal of Applied Physiology* 102:985-991, 2007.
18. **Dengel DR**, Kelly AS, Steinberger J, Sinaiko AR: Effect of oral glucose loading on endothelial function in normal and overweight children. *Clinical Science* 112(9):493-498, 2007.
19. Parker ED, Schmitz KH, Jacobs DR, **Dengel DR**, Schreiner PJ: Physical activity in young adults and incident hypertension over 15 years of follow-up: The CARDIA study. *American Journal of Public Health* 97:703-709, 2007.
20. Kaufman CL, Kaiser DR, Steinberger J, Kelly AS, **Dengel DR**: Relationships of Cardiac Autonomic Function with Metabolic Abnormalities in Childhood Obesity. *Obesity* 15:1164-1171, 2007.
21. Scott RM, Kaufman CL, **Dengel DR**: The Impact of Chiropractic Adjustments on Intracranial Blood Flow: A Pilot Study. *Journal of Vertebral Subluxation Research* 1-8, May 21, 2007.

22. Van Guilder GP, Hoetzer GL, **Dengel DR**, Stauffer BL, DeSouza CA: Impaired endothelium-dependent vasodilation in normotensive and normoglycemic obese adult humans. *Journal of Cardiovascular Pharmacology* 47:310-313, 2006.
23. **Dengel DR**, Brown MD, Reynolds TH, Supiano MA: Effect of aerobic exercise training on renal responses to sodium in hypertensives. *Medicine and Science in Sports and Exercise* 38:217-222, 2006.
24. **Dengel DR**, Brown MD, Reynolds TH, Kuskowski MA, Supiano MA: Effect of aerobic exercise training on blood pressure sensitivity to dietary sodium in older hypertensives. *Journal of Human Hypertension* 20:372-378, 2006.
25. Olson TP, Schmitz KH, Leon AS, **Dengel DR**: Vascular structure and function in women: relationship with body mass index. *American Journal of Preventive Medicine* 30:487-492, 2006.
26. **Dengel DR**, Kelly AS, Olson TP, Kaiser DR, Dengel JL, Bank AJ: Effects of weight loss on insulin sensitivity and arterial stiffness in overweight adults. *Metabolism* 55:907-911, 2006.
27. Gurney JG, Ness KK, Sibley SD, O'Leary M, **Dengel DR**, Lee JM, Youngren NM, Glasser SP, Baker KS: Metabolic syndrome and growth hormone deficiency in adult survivors of childhood acute lymphoblastic leukemia. *Cancer* 107(6):1303-1312, 2006.
28. Olson TP, **Dengel DR**, Leon AS, Schmitz KH: Moderate resistance training and vascular health in overweight women. *Medicine and Science in Sports and Exercise* 38(9): 1558-1564, 2006.
29. Kelly AS, Steinberger J, Kaiser DR, Olson TP, Bank AJ, **Dengel DR**. Oxidative stress and adverse adipokine profile characterize the metabolic syndrome in children. *The Journal of Cardiometabolic Syndrome* 1:248-252, 2006.
30. Lee C, Glickman SG, **Dengel DR**, Brown MD, Supiano MA: Abdominal adiposity assessed by dual energy X-ray absorptiometry provides a sex-independent predictor of insulin sensitivity in older adults. *Journal of Gerontology: Medical Sciences* 60A:872-877, 2005.
31. Reynolds TH, Reid P, Larkin LM, **Dengel DR**: Effects of aerobic exercise training on the protein kinase B (PKB)/mammalian target of rapamycin (mTOR) signaling pathway in aged skeletal muscle. *Experimental Gerontology* 39: 379-385, 2004.
32. Reynolds TH, Supiano MA, **Dengel DR**: Resistance training enhances insulin-mediated glucose disposal with minimal effect on the tumor necrosis factor-alpha system in older hypertensives. *Metabolism* 53(3):397-402, 2004.
33. Glickman SG, Marn CS, Supiano MA, **Dengel DR**: Validity and reliability of dual-energy X-ray absorptiometry for the assessment of abdominal adiposity. *Journal of Applied Physiology* 97:509-514, 2004.

34. Kelly AS, Wetzsteon RJ, Kaiser DR, Steinberger J, Bank AJ, **Dengel DR**: Inflammation, insulin, and endothelial function in overweight children and adolescents: the role of exercise. *Journal of Pediatrics* 145(6):731-736, 2004.
35. Kelly AS, Kaiser DR, **Dengel DR**, Bank AJ: Comparison of B-mode and echo-tracking methods of assessing flow-mediated dilation. *Ultrasound in Medicine and Biology* 30(11):1447-1449, 2004.
36. Alexander NB, **Dengel DR**, Olson RJ, Krajewski KM: Oxygen uptake (VO₂) kinetics and functional mobility performance in impaired older adults. *Journal of Gerontology: Biological Sciences* 58A(8):734-739, 2003.
37. Reynolds TH, Brown MD, Supiano MA, **Dengel DR**: Aerobic exercise training improves insulin sensitivity independent of plasma TNF-alpha levels in older hypertensives. *Metabolism* 51(11):1402-1406, 2002.
38. **Dengel DR**, Brown MD, Ferrell RE, Reynolds TH, Supiano MA: Exercise-induced enhancements in insulin action are associated with ACE gene polymorphisms in older hypertensives. *Physiological Genomics* 11:73-80, 2002.
39. Reynolds TH, Krajewski KM, Larkin LM, Reid P, Halter JB, Supiano MA, **Dengel DR**: Effect of age on skeletal muscle proteolysis in extensor digitorum longus muscles of B6C3F1 mice. *Journal of Gerontology: Biological Sciences* 57A:B198-B201, 2002.
40. Brown MD, **Dengel DR**, Hogikyan RV, Supiano MA: Sympathetic activity and the heterogeneous blood pressure response to exercise training in hypertensives. *Journal of Applied Physiology* 92:1434-1442, 2002.
41. **Dengel DR**, Brown MD, Ferrell RE, Supiano MA: Role of angiotensin converting enzyme genotype in sodium sensitivity in older hypertensives. *American Journal of Hypertension* 14:1178-1184, 2001.
42. Pratley RE, Hagberg JM, **Dengel DR**, Muller DC, Rogus EM, Goldberg AP: Aerobic exercise training-induced reductions in abdominal fat and glucose stimulated insulin responses in middle-aged and older men. *Journal of American Geriatrics Society* 9:1055-1061, 2000.
43. Brown MD, Hogikyan RV, **Dengel DR**, Supiano MA: Sodium-sensitive hypertension is not associated with higher sympathetic nervous system activity in older hypertensive humans. *American Journal of Hypertension*. 13:873-883, 2000.
44. Feely RS, Larkin LM, Halter JB, **Dengel DR**: Chemical vs. dual energy X-ray absorptiometry for detecting age-associated body compositional changes in male rats. *Experimental Gerontology* 13:417-427, 2000.
45. Taylor-Tolbert NS, **Dengel DR**, Brown MD, McCole SD, Pratley RE, Ferrell RE, Hagberg JM: Ambulatory blood pressure after acute exercise in older men with essential hypertension. *American Journal of Hypertension* 13(1):44-51, 2000.

46. Brown MD, Srinivasan M, Hogikyan RV, **Dengel DR**, Glickman SG, Galecki A, Supiano MA: Nitric oxide biomarkers increase during exercise-induced vasodilatation in the forearm. *International Journal of Sports Medicine* 21:83-89, 2000.
47. Hagberg JM, Ferrell RE, **Dengel DR**, Wilund KR: Exercise training-induced blood pressure and plasma lipid improvements may be genotype dependent. *Hypertension* 34:18-23, 1999.
48. Hagberg JM, Ferrell RE, Katzel LI, **Dengel DR**, Sorkin JD, Goldberg AP: Apolipoprotein E genotype and exercise training-induced increases in plasma high-density lipoprotein (HDL) - and HDL₂-cholesterol levels in overweight men. *Metabolism* 48(8):943-945, 1999.
49. **Dengel DR**, Hogikyan RV, Brown MD, Glickman SG, Supiano MA: Insulin sensitivity is associated with blood pressure response to sodium in older hypertensives. *American Journal of Physiology* 274(37):E403-E409, 1998.
50. **Dengel DR**, Hagberg JM, Pratley RE, Rogus EM, Goldberg AP: Improvements in blood pressure, glucose metabolism, and lipoprotein lipids after aerobic exercise plus weight loss in obese, hypertensive middle-aged men. *Metabolism* 47:1075-1082, 1998.
51. **Dengel DR**, Galecki AT, Hagberg JM, Pratley RE: The independent and combined effects of weight loss and aerobic exercise on blood pressure and oral glucose tolerance in older men. *American Journal of Hypertension* 11:1405-1412, 1998.
52. Macko RF, DeSouza CA, Tretter LD, Silver KH, Smith GV, Anderson PA, Tomoyaus N, Gorman P, **Dengel DR**: Treadmill aerobic exercise training reduces the energy expenditure and cardiovascular demands of hemiparetic gait in chronic stroke patients. *Stroke* 28:326-330, 1997.
53. Macko RF, Katzel LI, Yataco A, Tretter LD, DeSouza CA, **Dengel DR**, Smith GV, Silver KH. Low velocity graded treadmill stress testing in hemiparetic stroke patients. *Stroke* 28:988-993, 1997.
54. DeSouza CA, **Dengel DR**, Rogers MA, Cox K, Macko RF: Fibrinolytic responses to acute physical activity in older hypertensive men. *Journal of Applied Physiology* 82(6): 1765-1770, 1997.
55. **Dengel DR**, Mayuga RS, Kairis GM, Goldberg AP, and Weir MR: Effect of dietary sodium on insulin sensitivity in middle-aged, obese, sedentary hypertensives. *American Journal of Hypertension* 10 (Part I):964-970, 1997.
56. DeSouza CA, **Dengel DR**, Macko RF, Cox K, Seals DR: Elevated levels of circulation cell adhesion molecules in uncomplicated essential hypertension. *American Journal of Hypertension* 10:1335-1341, 1997.
57. DeSouza CA, **Dengel DR**, Rogers MA, Cox K, Macko RF: The fibrinolytic system is not impaired in older men with hypertension. *Hypertension* 27:1053-1058, 1996.

58. **Dengel DR**, Goldberg AP, Mayuga RS, Kairis GM, Weir MR: Insulin resistance, elevated glomerular filtration fraction and renal injury. *Hypertension* 28:127-132, 1996.
59. **Dengel DR**, Pratley RE, Hagberg JM, Rogus EM, Goldberg AP: Distinct effects of aerobic exercise training and weight loss on glucose homeostasis in obese sedentary men. *Journal of Applied Physiology* 81:318-325, 1996.
60. Weir MR, **Dengel DR**, Behrens MT, Goldberg AP: Salt-induced increases in systolic blood pressure affect renal hemodynamics and proteinuria. *Hypertension* 25:1339-1344, 1995.
61. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Impaired insulin sensitivity and maximal responsiveness in older hypertensives. *Hypertension* 23:320-324, 1994.
62. **Dengel DR**, Hagberg JM, Coon PJ, Drinkwater DT, Goldberg AP: Effects of weight loss by diet alone or combined with aerobic exercise on body composition in older obese men. *Metabolism* 43:867-871, 1994.
63. **Dengel DR**, Hagberg JM, Coon PJ, Drinkwater DT, Goldberg AP: Comparable effects of diet and exercise on body composition and lipoproteins in older men. *Medicine and Science in Sports and Exercise* 26:1307-1315, 1994.
64. **Dengel DR**, Weyand PG, Black DM, Cureton KJ: Effects of varying levels of hypohydration on ratings of perceived exertion. *International Journal of Sports Nutrition* 3:376-386, 1993.
65. Lewis RD, Johnson MA, **Dengel DR**, Jones MT, Norton KI: The effects of maternal training on plasma copper, magnesium and zinc in rats. *Nutrition Research* 13:771-778, 1993.
66. **Dengel DR**, Weyand PG, Black DM, Cureton KJ: Effect of varying levels of hypohydration on responses during submaximal cycling. *Medicine and Science in Sports and Exercise* 24:1096-1101, 1992.
67. Conley DS, Cureton KJ, **Dengel DR**, Weyand PG: Validation of the 12-min swim as a field test of peak aerobic power in young men. *Medicine and Science in Sports and Exercise* 23:766-773, 1991.
68. **Dengel DR**, Graham RE, Jones MT, Norton KI, Cureton KJ: Prediction of oxygen uptake using a bicycle wind-loaded simulator. *International Journal of Sports Medicine* 11:279-283, 1990.
69. Warren GL, Cureton KJ, **Dengel DR**, Graham RE, Ray CA: Is the gender difference in peak VO_2 greater for arm exercise than leg exercise? *European Journal of Applied Physiology* 60:149-154, 1990.
70. Norton KI, Delp MD, Jones MT, Duan C, **Dengel DR**, Armstrong RB: Distribution of blood flow during exercise after blood volume expansion in swine. *Journal of Applied Physiology* 69:1578-1586, 1990.

71. Jones MT, Norton KI, **Dengel DR**, Armstrong RB: Effects of training on reproductive tissue blood flow in exercising pregnant rats. *Journal of Applied Physiology* 69:2097-2103, 1990.
72. **Dengel DR**, Flynn MG, Costill DL, Kirwan JP: Determinants of success during triathlon competition. *Research Quarterly for Exercise and Sport* 60:234-238, 1989.
73. Flynn MG, Costill DL, Kirwan JP, Fink WJ, **Dengel DR**: Muscle fiber composition and respiratory capacity in triathletes. *International Journal of Sports Medicine* 8:383-386, 1987.

Chapters in Books

1. **Dengel DR**, Reynolds TH: Diabetes. In: LeMura LM and von Duvillard SP (eds), *Clinical Exercise Physiology: Application and Physiological Principles*. Baltimore, MD: Lippincott, Williams and Wilkins, pp. 319-329, 2004.
2. Goldberg AP, Hagberg JM, **Dengel DR**: Exercise physiology and aging. In: Schneider EL and Rowe JW (eds.), *Handbook of The Biology of Aging*. 4th edition. New York: Academic Press, Inc., pp. 331-354, 1996.
3. **Dengel DR**, Kearney JT, Fleck SJ: Performer readiness for amateur boxing. In: King LA (ed.), *Safety Awareness Manual of the USA Amateur Boxing Federation*. Colorado Springs, CO: USA Amateur Boxing Federation, pp. 31-43, 1989.

Monographs

1. Biltz GR, Harmon JH, **Dengel DR**, Unnithan VB, Witten G,: RER variability analysis by sample entropy: A preliminary comparison of obese and lean children. In: Jürimäe T, Armstrong N, Jürimäe J (eds.), *Children and Exercise XXIV: The Proceedings of the 24th Pediatric Work Physiology Meeting*. Oxon, England: Routledge, pp. 51-55, 2008.
2. Dibner RD, Shubin MM, Taylor-Tolbert N, **Dengel DR**, McCole SD, Brown MD, Hagberg JM: Effect of exercise training and acute exercise on essential hypertensives. In: Rogozkin VA, Maughan R (eds.), *Current Research in Sports Science: An International Perspective*. New York: Plenum Press, pp. 295-301, 1996.
3. Van Handel PJ, **Dengel DR**, Kearney JT, Bradley PW: A valid and reliable method for sampling blood lactate under field or laboratory conditions. In: Tenenbaum G, Eiger D (eds.), *Proceedings of The Maccabiah-Wingate International Congress*. Tel-Aviv, Israel: The Emmanuel Gill Publishing House, pp. 38-47, 1990.

Articles In Press

Dengel DR, Hearst MO, Harmon JH, Forsyth A, Lytle LA: Does the built environment relate to the metabolic syndrome in adolescents? *Health & Place* (in press).

Scott AT, Metzige AM, Hames RK, Schwarzenberg SJ, **Dengel DR**, Biltz GR, Kelly AS: Acanthosis nigricans and oral glucose tolerance in obese children. *Clinical Pediatrics* (in press).

Articles In Review

Dengel DR, Bronas UG: The role of endothelial dysfunction on development and progression of atherosclerosis and methods to assess vascular function and structure. *American Journal of Lifestyle Medicine* (in review).

Dengel DR, Jacobs DR, Jr, Steinberger J, Moran AM, Sinaiko AR: Vascular function and structure in young adults: differences between males and females. *Journal of Applied Physiology* (in review).

Alexander NB, Murphy SL, Gretebeck KA, Osevala NM, Vaitkevicius PV, Champoux WS, **Dengel DR**: Oxygen uptake kinetics, functional mobility in older adults with systolic heart failure. *Age and Ageing* (in review)

Templeton DL, Kelly AS, Steinberger J, **Dengel DR**: Bone mineral content in overweight and normal weight children. *Pediatric Exercise Science* (in review).

GRANT SUPPORT

Current

National Institute of Health, “Evaluating Innovative Weight Gain Prevention Strategies for At-Risk College Students”; **Co- Principal Investigator**, 2009-2014 (approximately \$2,466,074 direct costs)

Department of Veterans Affairs, “Fatigue and Physical Activity in Symptomatic Leg Osteoarthritis”; **Co-Investigator**, 2008-2011 (approximately \$740,200 direct costs)

Lupus Foundation of Minnesota, “Oxidative Stress and Endothelial Function in SLE”; **Co-Investigator**, 2008-2009 (approximately \$35,000 direct costs)

National Institutes of Health, “Cardiovascular Risk and Insulin Resistance: Age 7-40”; **Co-Investigator**, 2007-2011 (approximately \$3,738,228)

National Institute of Health, “Metabolic Syndrome in Childhood Cancer Survivors”; **Co-Investigator**, 2006–2011 (approximately \$3,610,747 direct costs)

National Institute of Health, “Metabolic Syndrome Following Transplant for Leukemia”; **Co-Investigator**, 2006-2011 (approximately \$1,314,179 direct costs)

National Institute of Health, “Etiology of Childhood Obesity (ECHO) Study”, **Co-Investigator**, 2006-2011 (approximately \$2,483,956 direct costs)

National Cancer Institute, University of Minnesota TREC Center, “Biological Determinants of Obesity in Teens”; **Principal Investigator**, 2006-2009 (approximately \$100,000 direct costs)

National Cancer Institute, “Examining the Obesity Epidemic through Youth, Family, and Young Adults”; **Co-Investigator**, 2005-2010 (approximately \$7,500,000 direct costs)

USDA, “Preventing Age-Related Weight Gain in Midlife Women”; **Co-Investigator**, 2007-2010 (approximately \$937,722 direct costs)

Recent

Department of Veterans Affairs, “Aerobic Performance, Mobility Limitations and Exercise in Older Adults with Diabetes”; **Co-Investigator**, 2005-2008 (approximately \$701,053 direct costs)

National Institute of Health, “Influence of Insulin on BP Change During Adolescence”; **Co-Investigators**, 2004-2008 (approximately \$2,500,000 direct costs)

Department of Veterans Affairs, “Functional Circuit Training in Older Adults with Congestive Heart Failure”, **Co-Investigator**, 2003-2007 (approximately \$711,600 direct costs)

American Heart Association, “Dietary Composition and Exercise Tolerance in Obese Adults”; **Co-Investigator**, 2004-2007 (approximately \$260,000 direct costs)

National Institute of Health, “Metabolic Syndrome in Adult Survivors of Childhood ALL”; **Co-Investigator**, 2004-2006 (approximately \$250,000 direct costs)

National Institute of Health, “Predicting Energy Balance in Midlife Women”; **Co-Investigator**, 2005-2006 (approximately \$281,846 direct costs)

National Multiple Sclerosis Society, “Effects of a Home-based Aerobic Exercise Program for Persons with Multiple Sclerosis”; **Co-Investigator**, 2005-2006 (approximately \$44,000 direct costs)

Minnesota Obesity Center, “The Effects of Aerobic Exercise on Vascular Structure and Function in Obese Children”; **Co-Investigator**, 2002-2005 (approximately \$40,000 direct costs)

University of Minnesota, “Effects of High Carbohydrate Drinks on Vascular Function in Adolescents”; **Principal Investigator**, 2002-2004 (approximately \$24,191 direct costs)

American Heart Association, “Effects of Exercise Training on Vascular Endothelial Function and Inflammation in Obese Children and Adolescents”; **Sponsor**, 2002-2004 (approximately \$41,000 direct costs)

Department of Veterans Affairs, “Oxygen Kinetics, Mobility Task Performance, and Task Training in Older Adults”; **Co-Investigator**, 1999-2003 (approximately \$540,400 direct costs)

National Institute of Aging/Claude D. Pepper Pilot Grant, “Effects of Age and Exercise Training on Skeletal Muscle Protein Turnover”; **Principal Investigator**, 1999-2000 (approximately \$25,000 direct costs)

Department of Veterans Affairs, “The Effects of Age and Insulin on Protein Turnover”;
Principal Investigator, 1999-2000 (approximately \$15,000 direct costs)

National Institute of Aging/National Institute of Health (SERCA), “Insulin Action, Sodium and Exercise in the Hypertension of Aging”; **Principal Investigator**, 1995-2000 (approximately \$445,000 direct costs)

University of Michigan - Spring/Summer Research Grant, “Insulin Action, Sodium and Exercise in the Hypertension of Aging”; **Principal Investigator**, 1997 (approximately \$2,000 direct cost)

College of Health and Human Performance Research Grant, University of Maryland College Park, MD, “Effect of Acute Exercise on Fibrinolytic Variables in Older Hypertensives”; **Co-Investigator**, 1994-1995 (approximately \$6,000 direct cost)

National Institute of Aging/Claude D. Pepper Pilot Grant, “Effects of Exercise on Blood Pressure and Hyperinsulinemia and Renal Function in the Elderly”; **Principal Investigator**, 1994-1995 (approximately \$12,000 direct cost)

National Institute of Aging/Claude D. Pepper, “Older American Independence Center”; **Co-Investigator**, 1994-1999 (approximately \$5,597,990 direct cost)

Maryland Affiliated-American Heart Association, “Exercise, Insulin and Sodium in Black Hypertensives”; **Co-Investigator**, 1994-1996 (approximately \$22,000 direct cost)

National Institute of Aging, Geriatric Leadership Academic Award Grant, Pilot Grant, “Insulin Action, Sodium and Exercise in Hypertension”; **Principal Investigator**, 1994-1995 (approximately \$5,000 direct cost)

Department of Veterans Affairs, “Geriatric Research, Education and Clinical Center (GRECC)”; **Co-Investigator**, 1992-1995 approximately \$2,345,454 direct cost)

National Institute of Aging, National Research Service Award, “Exercise, Blood Pressure and Metabolism in the Elderly”; **Principal Investigator**, 1991-1994 (approximately \$291,600 direct cost)

Findlay, INC., “Prediction of Oxygen Uptake and Caloric Expenditure from the Findlay Road Machine”; **Principal Investigator**, 1988-1989 (approximately \$1,500 direct cost)

Pending

Department of Defense, “Effects of Time and Changes in Physical Activity on Vasculature Structure and Function in Adult Survivors of Childhood Cancer”, **Principal Investigator**, 2010-2013 (approximately \$1,066,640 direct costs)

National Institute of Health, “Brain and Cognitive Abnormalities in Adolescence Obesity”, **Co-Investigator**, 2009-2014 (approximately \$3,468,906 direct costs)

National Institute of Health, “Is Counseling Cost-Effective to Promote Walking for Peripheral Arterial Disease?”, **Co-Investigator**, 2009-2011 (approximately \$999,865 direct costs)

National Institute of Health, “Effect of Exercise on Brain and Cognition during Recovery”, **Co-Investigator**, 2009-2014 (approximately \$3,323,394 direct costs)

USDA, “Personality and Preventing Excess Weight Gain in Young Adults”; **Co-Investigator**, 2010-2014 (approximately \$ 1,372,399 direct costs)

National Institute of Health, “Hyperinsulinemia & Vascular Function In Late Adolescents: Effects of Exercise”; **Principal Investigator**, 2010-2015 (approximately \$1,855,378 direct costs)

National Institute of Health, “Minnesota Obesity Prevention Training”; **Co-Investigator**, 2009-2014 (approximately \$2,466,074 direct costs)

National Cancer Institute, “Effects of Time & Exercise On Vasculature Of Adult Survivors Of Childhood Cancer”; **Principal Investigator**, 2009-2014 (approximately \$1,250,000 direct costs)

RESEARCH PRESENTATIONS

Extramural Invited Presentations

“The Decline of Arterial Health in Children: The Roles of Obesity and Physical Activity”, invited seminar, University of Minnesota-Duluth, School of Medicine, Duluth Minnesota, May 8, 2009.

“The Role of the GCRC Human Performance Lab in Facilitation of Exercise Intervention Research”, invited seminar, Office of Clinical Research Forum, University of Minnesota, Minneapolis, Minnesota, January 13, 2009.

“An Exercise Intervention for Cancer Survivors”, invited seminar, Cancer Outcomes & Survivorship Research Group Seminar, University of Minnesota, Minneapolis, Minnesota, December 1, 2008.

“Exercise for The Treatment of Diabetes Mellitus”, invited seminar, Diabetes Topics Forum, University of Minnesota Physicians, University of Minnesota Medical Center-Riverside Campus, Minneapolis, Minnesota, October 9, 2008.

“The Price of Surviving Cancer: Effects of Chemotherapy and Radiation on Metabolic and Cardiovascular Health”, invited seminar, Clinical Research Integration Programs, Minneapolis VA Medical Center, October 3, 2008.

“The GCRC Human Performance Laboratories”, invited seminar, Office of Clinical Research Forum, University of Minnesota, Minneapolis, Minnesota, September 23, 2008.

“Guideline For Personal Health – Exercise”, invited seminar, Office of Clinical Research, University of Minnesota, Minneapolis, Minnesota, June 6, 2008.

“Scope of Possibilities in Clinical Physiology”, invited symposium, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, May 31, 2008.

“Solutions to Impaired Endothelial Function in Overweight Adolescents”, invited seminar, City-Wide Conference in Endocrinology and Diabetes, Minneapolis, Minnesota, November 15, 2007.

“Super Sizing Our Kids: Problems and Solutions for Childhood Obesity”, invited seminar, Medtronic Twin Cities Marathon - Target Health & Fitness Expo, Minneapolis, Minnesota, October 6, 2007.

“Children: A Special Population”, keynote lecture, Northland Regional Chapter American College of Sports Medicine Annual Fall Meeting, Brookings, South Dakota, October 4, 2007.

“Endothelial Dysfunction in Children: The Role of Obesity, Exercise and Weight Loss”, invited seminar, Northland Regional Chapter American College of Sports Medicine Annual Fall Meeting, Brookings, South Dakota, October 5, 2007.

“The Price of Surviving Cancer: Effects of Chemotherapy and Radiation on Vascular Health”, invited virtual seminar, TREC Molecular Pathways Working Group, broadcast via internet to University of Southern California, Los Angeles, California, University of Minnesota, Minneapolis, Minnesota, Case Western Reserve, Cleveland, Ohio, Fred Hutchinson Cancer Research Center, Seattle, Washington, May 22, 2007.

“The Price of Surviving Cancer: Effects of Chemotherapy and Radiation on Vascular Health”, invited seminar, Lillehei Heart Institute Lecture Series, Minneapolis, Minnesota, December 5, 2006.

“Super-Size Me: The Epidemic of Childhood Obesity”, invited seminar, Saturday Scholars, University of Minnesota, Minneapolis, Minnesota, September 17, 2005.

“Endothelial Dysfunction in Children: The Role of Obesity and Exercise”, invited seminar, Lillehei Heart Institute Lecture Series, Minneapolis, Minnesota, January 19, 2005.

“Decline in Vascular Function in Children: The Role of Obesity and Exercise”, invited seminar, Karolinska Institute,

“The Role of Oxygen Kinetics in Impairments in Mobility & Function in Older Adults” invited seminar, Minneapolis VA Medical Center, Minneapolis, Minnesota, October 2, 2002.

“What Does Aerobic Exercise Add To A Weight Loss Program?” invited seminar, Minnesota Obesity Center, Minneapolis, Minnesota, May 14, 2001.

“The Pressure is on: Non-Pharmacologic Treatment of Hypertension in the Elderly,” invited seminar, Center on Aging, Minneapolis, Minnesota, March 22, 2001.

“Insulin Does It Have A Role In Alzheimer’s Disease?” invited seminar, Minneapolis VA Medical Center, Minneapolis, Minnesota, April 18, 2001.

“The Pressure is on: Non-Pharmacologic Treatment of Hypertension in the Elderly,” invited seminar, City-Wide Conference in Endocrinology and Diabetes, Minneapolis, Minnesota, December 7, 2000.

“The Interplay Between Insulin And Sodium In Hypertension,” invited seminar, University of Maryland, Department of Kinesiology, College Park, Maryland, March 1, 2000.

“The Pressure Is On: The Role of Dietary Sodium In The Treatment of Hypertension In The Elderly,” invited seminar, University of Michigan, Institute of Gerontology, Ann Arbor, Michigan, February 10, 2000.

“Exercise And Preventive Health,” Celebration of Health, University of Michigan Geriatrics Center, Ann Arbor, Michigan, June 28, 1997

“Role of Physical Activity And Aging,” Congresswoman Lynn Rivers Senior Citizen Task Force, Van Buren, Michigan, June 2, 1997.

“Differential Effect Of Dietary Sodium Intake On Insulin Sensitivity In Sodium Sensitive And Sodium Resistant Older, Hypertensive Humans,” invited seminar, Division of Hypertension, University of Michigan, Ann Arbor, Michigan, October 28, 1996.

“The Role Of Aerobic Exercise And Weight Loss On Defects In Blood Pressure And Glucose Metabolism,” invited seminar, Meadow Brook Hypertension Workshop, Oakwood University, Oakwood, Michigan, January 19, 1996.

"Alterations In Syndrome X," invited seminar, Department of Exercise Science, East Carolina State University, Greenville, North Carolina, November 1, 1994.

"Aerobic Exercise Training And Weight Loss: The Cure For Syndrome X?" invited seminar, Division of Preventive Cardiology, University of Pittsburgh, Pittsburgh, Pennsylvania, November 12, 1993.

Other Presentations

“Proinflammatory Markers Are Not Altered With Exercise Training Despite Enhanced Endothelial Function In Overweight Children”, 23rd Pediatric Work Physiology Meeting on Children and Exercise, Gwatt, Switzerland, September 25, 2005.

“Effect Of Acute Hyperglycemia On Endothelial Function In Normal And Overweight Children”, American College of Sports Medicine Annual Meeting, Nashville, Tennessee May 30, 2005.

“Effects of Oral Glucose Loading on Endothelial Function in Overweight Children”, American Heart Association Flier Symposium, San Francisco, California, March 4, 2004.

“Exercise-Induced Improvements in Insulin Sensitivity Are Associated With Ace Gene Polymorphisms,” American College of Sports Medicine Annual Meeting, St. Louis, Missouri, May 31, 2002.

“Ace Gene Polymorphisms Are Associated With Exercise-Induced Improvements In Insulin Sensitivity In Older Hypertensive,” American Diabetes Association: Understanding the Metabolic Syndrome: Effect on Diabetes and Cardiovascular Disease Conference, Tempe, Arizona, December 2001.

“Importance Of Submaximal Oxygen Kinetics In Performing Tasks Of Daily Living In Older Adults,” American College of Sports Medicine Annual Meeting, Baltimore, Maryland, June 1, 2001.

“Role Of The Renin-Angiotensin-Aldosterone System In Sodium Sensitivity In Older Hypertensives,” Experimental Biology Meeting, San Diego, California, April 15, 2000.

“Aerobic Exercise Training Does Not Impair Kidney Function Or Sodium Handling In Older Hypertensive Individuals,” Central Society for Clinical Research Midwestern Regional Meeting, Chicago, Illinois, September 18, 1999.

“Insulin Sensitivity Is Related To Maximal Aerobic Capacity And Obesity In Older Men,” American College of Sports Medicine Annual Meeting, Seattle, Washington, June 1, 1999.

“Improvement In Renal Function In Older Hypertensives Is Associated With Increase In Maximal Aerobic Capacity,” American College of Sports Medicine Annual Meeting, Orlando, Florida, June 2, 1998.

“Dietary Salt Restriction Has No Effect On Insulin Sensitivity In Hypertensive Regardless Of Salt-Sensitivity Status,” American College of Sports Medicine Annual Meeting, Denver, Colorado, May 29, 1997.

“Dietary Salt Restriction Does Not Improve Insulin Sensitivity In Older Hypertensive Humans Regardless Of Salt-Sensitivity Status,” Midwestern Section American Federation for Clinical Research Meeting, Chicago, Illinois, September, 20, 1996.

“Distinct Effects Of Aerobic Exercise Training And Weight Loss On Glucose Homeostasis Sedentary Men,” American College of Sports Medicine Annual Meeting, Cincinnati, Ohio, May 30, 1996.

“Differentiating The Effects Of Exercise And Weight Loss On Glucose Metabolism,” American College of Sports Medicine Annual Meeting, Minneapolis, Minnesota, June 2, 1995.

“Effect Of Aerobic Exercise And Weight Loss On “Syndrome X,” American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 3, 1994.

“Aerobic Exercise And Weight Loss Ameliorate Coronary Artery Disease Risk Factors Associated With The Insulin Resistance Syndrome (Syndrome X),” American Federation for Clinical Research National Meeting, Baltimore, Maryland, March 18, 1994.

“VO_{2max} And Body Composition Are Not Exclusively Responsible For The Insulin Resistance In Older Hypertensives,” American College of Sports Medicine Annual Meeting, Seattle, Washington, June 1, 1993.

“Insulin Deficiency And Abdominal Obesity, Not Increased Insulin Resistance Are Associated With NIDDM And Glucose Intolerance,” American Diabetes Association Annual Meeting, Las Vegas, Nevada, June 12, 1993.

“The Insulin Resistance/Hypertension Link In Older Obese Sedentary Men,” The Gerontological Society of America Annual Scientific Meeting, Washington D.C., November 19, 1992.

“Weight Loss By Exercised And Diet Decreases Fat-Free Mass Similarly In Older Obese Men,” American College of Sports Medicine Annual Meeting, Dallas, Texas, May 29, 1992.

“Effect Of Dehydration On Ratings Of Perceived Exertion,” American College of Sports Medicine Annual Meeting, Orlando, Florida, May 30, 1991.

“Arterial Pressure And Plasma Volume Loss During Exercise In Swine,” American College of Sports Medicine Southeast Regional Meeting, Atlanta, Georgia, November 15, 1990.

“Prediction Of VO_2 Using A Bicycle Wind-Load Simulator,” American College of Sports Medicine Southeast Regional Meeting, Atlanta, Georgia, November 16, 1989.

“Importance Of Upper Body Strength In Lugers,” American College of Sports Medicine Annual Meeting, Baltimore, Maryland, June 2, 1989.

“Relationship Of Punch Velocity In Amateur Boxing,” American College of Sports Medicine Southeast Regional Meeting, Winston-Salem, North Carolina, November 15, 1988.

“Training Responses In National Team Boxers,” American College of Sports Medicine Annual Meeting, Las Vegas, Nevada, May 29, 1987.

“Metabolic Determinants Of Success During Triathlon Competition,” American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, May 30, 1986.

TEACHING ACTIVITIES

COURSES TAUGHT

- 2002-present “Exercise Physiology”, Undergraduate course for Kinesiology majors, University of Minnesota, Minneapolis, Minnesota
- 2005 “Advanced Theory and Techniques of Exercise Science”, Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota
- 2004 “Exercise In The Prevention Of Metabolic Disease”, International Study Abroad course for graduate and undergraduate students from the University of Minnesota and the Karolinska Institutet, Stockholm, Sweden
- 2003-2004 “Human Physiology”, Undergraduate course for Kinesiology majors, University of Minnesota, Minneapolis, Minnesota

- 2002-2004 "Advanced Electrocardiogram, Graded Exercise Testing and Prescription", Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota
- 2002-2004 Graduate Exercise Physiology Seminar", Graduate course of Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota
- 2001-2002 "Applied Exercise Physiology", Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota
- 1997-1998 "Statistics and Scientific Literacy in Movement Science", Undergraduate course for Kinesiology Majors, University of Michigan, Ann Arbor, Michigan
- 1994-1995 "Human Physiology, Graduate course for Department of Physical Therapy, School of Medicine, University of Maryland, Baltimore, Maryland
- 1987-1989 "Exercise Physiology Laboratory," Undergraduate laboratory course for Exercise Sciences Majors, University of Georgia, Athens, Georgia

LECTURER

- 1999-2000 "Human Growth and Development", Course for First Year Medical Students, Section Lecturer, for Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan
- 1995-2000 "Cardiovascular Sequence", Course for 2nd Year Medical Students, Section Lecturer, for Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan
- 1994-1995 "Medical Physiology," Section Lecturer, Acute Cardiorespiratory and Metabolic Effects of Exercise, Department of Physiology, School of Medicine, University of Maryland, Baltimore, Maryland

INVITED TEACHING PRESENTATIONS

- "The Role of Physical Inactivity and Obesity on Arterial Health in Adolescents and Children," Postgraduate Course 1790-Exercise in The Management and Prevention of Metabolic Diseases, Karolinska Institute, Stockholm, Sweden, May 25, 2009.
- "Fit vs. Fat," PubH 6360-Obesity & Eating Disorders: Etiology & Epidemiology, University of Minnesota, Minneapolis, Minnesota, October 16, 2008
- "Energy Balance: The Role of Physical Activity and Obesity," PubH 6360-Obesity & Eating Disorders: Etiology & Epidemiology, University of Minnesota, Minneapolis, Minnesota, October 18, 2007
- "Children: A Special Population," KIN 5385-Exercise for Disease Prevention and Management, University of Minnesota, Minneapolis, Minnesota, May 1, 2007

- “Exercise for the Obese and Growing Child,” KIN 5385-Exercise for Disease Prevention and Management, University of Minnesota, Minneapolis, Minnesota, May 2, 2006
- “Energy Balance: The Role of Physical Activity and Obesity,” PubH 6360-Obesity & Eating Disorders: Etiology & Epidemiology, University of Minnesota, Minneapolis, Minnesota, October 19, 2006
- “Children: The Role of Obesity and Exercise,” KIN 5385-Exercise for Disease Prevention and Management, University of Minnesota, Minneapolis, Minnesota, May 3, 2005
- “Effects of Exercise on Age-Related Endothelial Dysfunction,” Postgraduate Course 1790-Exercise in The Management and Prevention of Metabolic Diseases, Karolinska Institute, Stockholm, Sweden, May 26, 2004.
- “Exercise for the Obese and Growing Child,” KIN 5385-Exercise for Disease Prevention and Management, University of Minnesota, Minneapolis, Minnesota, May 4, 2004
- “Clinical Exercise Physiology,” KIN 1871-Introduction to Kinesiology, University of Minnesota, Minneapolis, Minnesota, April 30, 2003
- “Youth, Exercise, and Sport,” KIN 5375-Competitive Sport for Children and Youth, University of Minnesota, Minneapolis, Minnesota, April 11, 2002
- “Effects of Exercise on Body Composition,” FScN 5623- Regulation of Energy Balance, University of Minnesota, Minneapolis, Minnesota, March 27, 2002
- “Diabetes Mellitus In The Elderly,” GERO 5110-Biology of Aging, University of Minnesota, Minneapolis, Minnesota, March 11, 2002
- “Hypertension In The Elderly,” GERO 5110-Biology of Aging, University of Minnesota, Minneapolis, Minnesota, March 13, 2002
- “Clinical Exercise Physiology,” invited lecture, KIN 1871-Introduction to Kinesiology, University of Minnesota, Minneapolis, Minnesota, October 15, 2001
- “Effects of Physical Activity on Bone,” invited seminar, Division of Geriatric Medicine, University of Michigan, Ann Arbor, Michigan, April 1, 1997
- “Benefits of Physical Activity,” invited seminar, University of Michigan Turner Clinic, University of Michigan, Ann Arbor, Michigan, February 27, 1997
- “Nonpharmacologic Control of Hypertension,” invited seminar, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, March 5, 1996
- “Benefits And Prescription of Exercise For Older Patients,” invited seminar, Division of Geriatric Medicine, University of Michigan, Ann Arbor, Michigan, February 27, 1996

TEACHING CONFERENCES

Local

“Collaborative Leadership Development Series: Grant Writing for Interdisciplinary Research,” The Graduate School, University of Minnesota, Minneapolis, Minnesota, April 30, 2008.

“Cardiac Rehabilitation Guidelines,” VISN 23 Extended Care & Rehabilitation Service Line Education Spring Submit, Department of Veteran Affairs, VISN 23, Minneapolis, Minnesota, May 5, 2005

“Exercise as an alternative/supplement to hormone replacement therapy,” Advances in Internal Medicine, Postgraduate Medicine and Health Professions Education, University of Michigan, Ann Arbor, Michigan, April 30, 1997

“Aerobic exercise program for glucose metabolism and blood pressure control,” Claude D. Pepper Older Americans Independence Center, Ann Arbor, Michigan, October 9, 1996

National

“Symposium role of exercise as a non-pharmacological therapy and in preventing diseases associated with aging,” co-chairman, invited seminar, American College of Sports Medicine 1998 Annual Meeting, Orlando Florida, June 5, 1998

“Physical activity, fitness, and hypertension,” invited seminar, American College of Sports Medicine 1998 Annual Meeting, Orlando Florida, June 5, 1998

EDUCATIONAL MATERIALS

“Laboratory experiences in exercise physiology (first edition),” A Laboratory Manual for KIN 4385 Exercise Physiology, University of Minnesota, Minneapolis, Minnesota, 2008.

“Exercise as an alternative/supplement to hormone replacement therapy,” Advances in Internal Medicine, Postgraduate Medicine and Health Professions Education, University of Michigan, Ann Arbor, Michigan, 1997.

MENTORING

Postdoctoral Fellows Supervised

Michael Brown, Postdoctoral, Ph.D., University of Michigan School of Medicine (with M.A. Supiano), Research area - Relationship between dietary sodium intake and sympathetic nervous system activity and endothelial function (1995-1998)

Thomas Reynolds, Postdoctoral, Ph.D., University of Michigan School of Medicine (with M.A. Supiano), Research area - Protein metabolism in aging muscle (1998-2000)

Doctoral Students Supervised

Christopher DeSouza, Ph.D., University of Maryland, College Park, MD
Dissertation topic - "Effects of acute exercise on fibrinolytic variables in older hypertensives." (1993-1995)

Aaron Kelly, Ph.D., University of Minnesota, Minneapolis, MN

Dissertation topic – “Vascular structure and function in overweight children.”
(2001-2004)

Thomas Olson, Ph.D., University of Minnesota, Minneapolis, MN

Dissertation topic – “Changes in vascular structure and function with strength training in women.” (2001-2005)

Eric Snyder, Ph.D., University of Minnesota, Minneapolis, MN

Dissertation topic – “Influence of β_2 adrenergic receptor genotype on the development of pulmonary edema.” (2001-2005)

Robert Scott, Ph.D., University of Minnesota, Minneapolis, MN

Dissertation topic – “The effects of chiropractic cervical adjustments on middle cerebral artery blood flow and radial artery blood pressure response.” (2001-2005)

Christopher Kaufman, Ph.D., University of Minnesota, Minneapolis, MN

Dissertation topic – “Cardiovascular autonomic function in overweight and obese children.”
(2003-2006)

Kevin Burns, Ph.D. Candidate, University of Minnesota, Minneapolis, MN

Dissertation topic – “Undecided.” (2006 - present)

Danielle Templeton, Ph.D. Candidate, University of Minnesota, Minneapolis, MN

Dissertation topic – “Undecided.” (2006 - present)

Michael Nelson, Ph.D. Candidate, University of Minnesota, Minneapolis, MN

Dissertation topic – “Undecided.” (2007 - present)

Masters Thesis Students Supervised

Andrew Byard, MA Thesis, University of Minnesota, Minneapolis, MN

Thesis topic – “Validation of a portable metabolic measurement system”
(2000-2002)

Jennifer Teske, MA Thesis, University of Minnesota, Minneapolis, MN

Thesis topic – “Effect of dietary sucrose on uncoupling protein gene expression”
(2001-2003)

Jennifer Tracy, MA Thesis, University of Minnesota, Minneapolis, MN

Thesis topic – “Relationship between body composition and resting metabolic rate in young and middle-aged women” (2001-2005)

Corey Huck, MA Thesis, University of Minnesota, Minneapolis, MN

Thesis topic – “Comparison of non-invasive modalities of vascular function” (2003-2005)

Carrie Scott, MA Thesis, University of Minnesota, Minneapolis, MN

Thesis topic – “Resistance Training in Overweight or Obese Women To Increase Resting Metabolic Rate” (2002-2005)

Tyler Bosch, MA Thesis, University of Minnesota, Minneapolis, MN
Thesis topic – “Measurement of cardiovascular autonomic function by tilt table and nitroglycerin administration” (2005-2007)

Catherine Hooke, MA Thesis, University of Minnesota, Minneapolis, MN
Thesis topic – “Arterial stiffness in childhood cancer survivors” (2006-2008)

Adam Larson, MA Candidate, University of Minnesota, Minneapolis, MN
Thesis topic – “Undecided” (2006-present)

Andrew Scott, MA Candidate, University of Minnesota, Minneapolis, MN
Thesis topic – “Undecided” (2007-present)

Senior Thesis Students Supervised

Rebecca Dawson, B.S. Senior Thesis, University of Michigan, Ann Arbor, MI
Thesis topic - “Dual energy x-ray absorptiometry for the measurement of percent body fat in rats: a comparison with chemical analysis.” (1997-1998)

Eric Kozfkay, B.S. Senior Thesis, University of Michigan, Ann Arbor, MI
Thesis topic - “Age-associated body compositional changes in male rats” (1997-1998)

Katherine Krajewski, B.S. Senior Thesis, University of Michigan, Ann Arbor, MI
Thesis topic - “Protein degradation and the ubiquitin-proteasome pathway in isolated mouse skeletal muscle.” (1997-1999)

Post-Baccalaureate Fellow Supervised

Kama Tillman, B.S. Post-Baccalaureate Fellow, University of Michigan, Ann Arbor, MI
Topic - “Hypertension and the role of nitric oxide.” (1996-1997)

Committee Member

Emily Parker, M.P.H. Thesis, University of Minnesota, Minneapolis, MN
Thesis topic – “Physical inactivity and incident hypertension over fifteen years of follow-up in CARDIA.” (2003-2005)

Andrea Thelen, M.A. Thesis, University of Minnesota, Minneapolis, MN
Thesis topic - “Time to peak artery dilation with nitroglycerin.” (2004-2006)

Krista Shevlin, M.S. Project, University of Minnesota, Minneapolis, MN
Project topic – “Effect of yoga on flexibility, fatigue impact and perceived stress for persons with multiple sclerosis.” (2005-2006)

Amy Moran, Ph.D., University of Minnesota, Minneapolis, MN
Dissertation topic – “The effect of ovarian hormones on skeletal muscle contractility and myosin.” (2002-2006)

Steven Whicher, Ph.D., University of Minnesota, Minneapolis, MN
Dissertation topic – “Seasonal changes in heart rate in female collegiate rowers.” (2002-2007)

Lilian S. Tang, M.S. Project, University of Minnesota, Minneapolis, MN
Project topic – “Childhood obesity interventions and implications for occupational therapy: a systematic literature review.” (2006-2007)

Houa Vue, Ph.D., University of Minnesota, Minneapolis, MN
Dissertation topic – “Attitudes & needs regarding eating occasions and BMI among midlife women.” (2002-2008)

Angela Smith, M.D., M.S., University of Minnesota, Minneapolis, MN
Thesis topic - A Pilot Study of Vascular Function During Hematopoietic Cell Transplantation-An Interim Analysis." (2006-2008)

SERVICE ACTIVITIES

STUDY SECTION REVIEWER

1999-present National Institutes of Health, Small Business Innovation Grant Study Section
2004-2007 American Heart Association, BSEP I Study Section

AD HOC REVIEWER – GRANTS

2007 National Institute of Diabetes and Digestive and Kidney Diseases, Special Emphasis Panel
2004 National Science Foundation, Antarctic Biology & Medicine
2003 National Institutes of Health/National Institute on Aging
2000 University of Michigan General Clinical Research Center Mock Site Visit
1999 Department of Veteran Affairs, Merit Review Study Section
1997 The University of Michigan Medical Center, General Clinical Research Center Operating Subcommittee
1997 National Institutes of Health, Minority Dissertation Ad Hoc Review Group

EDITORIAL BOARDS

2007-present The Open Sports Medicine Journal, Bentham Science Publishers LTD.

AD HOC REVIEWER – JOURNALS

American Journal of Physiology, Annals of Internal Medicine, Arteriosclerosis, Thrombosis, and Vascular Biology, Canadian Journal of Applied Physiology, Circulation, Hypertension, International Journal of Sports Medicine, Journal of Applied Physiology, Journal of Women’s Health, Medicine and Science in Sports & Exercise, Metabolism, Obesity Research

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

2005-present North American Society for Pediatric Medicine
1993-present American Heart Association
1986-present American College of Sports Medicine

COMMITTEES

National

2007-2008 American Heart Association Writing Group for the Outcomes Centers Research Program Grants, Dallas, Texas

2005-2007 American College Sports of Medicine Research Review Committee,
Indianapolis, Indiana

1993-1995 Internal Advisory Committee, Geriatric Research, Education and Clinical
Center (GRECC), Baltimore VA Medical Center, Baltimore, Maryland

University

2007-present Chair, Scientific Advisory Committee, General Clinical Research Center,
University of Minnesota, Minneapolis, Minnesota

2007 Chair, General Clinical Research Center Clinical Research Exercise
Coordinator Search Committee, University of Minnesota, Minneapolis,
Minnesota

2007 Global Seminars Review Committee, Learning Abroad Center, University of
Minnesota, Minneapolis, Minnesota

2006-present Senate Research Committee, University of Minnesota, Minneapolis,
Minnesota

2005-present Faculty Advisory Committee, Obesity Prevention Center, University of
Minnesota, Minneapolis, Minnesota

2003 Fulbright Scholarship Evaluation Committee, Graduate School, University
of Minnesota, Minneapolis, Minnesota

College

2008 College of Education and Human Development Research Program Review
Committee, University of Minnesota, Minneapolis, Minnesota

2006-2007 College of Education and Human Development Research Committee,
University of Minnesota, Minneapolis, Minnesota

2004 Associate Dean for Research Search Committee, College of Education and
Human Development, University of Minnesota, Minneapolis, Minnesota

2004 College of Education and Human Development Sabbatical Committee,
University of Minnesota, Minneapolis, Minnesota

2001-2004 College of Education and Human Development Research Committee,
University of Minnesota, Minneapolis, Minnesota

Departmental

2006-2007 Wellness Faculty Search Committee, School of Kinesiology, University of
Minnesota, Minneapolis, Minnesota

2000-2001 Human Factors Search Committee, School of Kinesiology, University of
Minnesota, Minneapolis, Minnesota

1984-1986 Graduate School Committee for the Department of Physical Education, Ball
State University, Muncie, Indiana