

CURRICULUM VITAE

DONALD R. DENGEL, Ph.D.

Academic Rank and Positions

Professor in the School of Kinesiology
Director, Human Performance Teaching Laboratory, School of Kinesiology
Director, Laboratory of Integrative Human Physiology, School of Kinesiology
Adjunct Professor in the University of Minnesota, Department of Pediatrics
Senior Investigator in the Minnesota Obesity Prevention Center
Member in the University of Minnesota Cancer Center
Member in the University of Minnesota Lillehei Heart Institute

Education

Degree	Institution	Date Degree Granted
B.S.	University of Wisconsin-LaCrosse Physical Education	1984
B.S.	University of Wisconsin-LaCrosse Health Education	1984
M.A.	Ball State University Human Bioenergetics	1986
Ph.D.	University of Georgia Exercise/Applied Physiology	1990

Positions/Employment

University of Minnesota, Twin Cities, School of Kinesiology	2000-Present
Professor	2013-Present
Associate Professor	2003-2013
Assistant Professor	2000-2003
University of Minnesota, Twin Cities. Clinical and Translational Science Institute	2009-Present
Director, Human Performance Core and Densitometry Services	
Minneapolis VA Medical Center, Research Services	2000-2011
Health Scientist	
University of Michigan, Department of Internal Medicine	1995-2000
Assistant Research Scientist	
Ann Arbor VA Medical Center, Geriatric Research Education and Clinical Center	1995-2000
Research Scientist	
University of Maryland School of Medicine, Division of Gerontology	1990-1995
Research Associate	1994-1995
Postdoctoral Research Fellow	1990-1994
University of Georgia, School of Kinesiology	1987-1990
Graduate Research Assistant	

U.S. Olympic Training Center, Colorado Springs, Colorado
Research Exercise Physiologist

1986-1987

Ball State University, Human Performance Laboratory
Graduate Research Assistant

1984-1986

Current Membership in Professional Organizations

North American Society for Pediatric Medicine
American Heart Association
American College of Sports Medicine
National Academy of Kinesiology

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT AND SERVICE

University of Minnesota

Marty and Jack Rossmann Award, CEHD, University of Minnesota (2011)

External Awards

Fellow, National Academy of Kinesiology (2014)
Scientific Manuscript Excellence Honor: Dr. Gary A. Dudley Memorial Paper: Journal of Strength and Conditioning Research (2014)
Highlighted Abstract: American Heart Association Annual Meeting (2013)
Fellow, American Heart Association, Council on Lifestyle and Cardiometabolic Health (2008)
New Investigator Award, American College of Sports Medicine (1997)
Fellow, American College of Sports Medicine (1994)
National Institute of Aging/National Institute of Health (SERCA Award) (1995)
National Research Service Award from NIH (NRSA) (1991)
Magna Cum Laude, University of Wisconsin-La Crosse (1984)
Sigma Zeta National Science Honor Society (1983)

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK Grants and Contracts

External Sources

Grants Received at the University of Minnesota

Co-Investigator

Fulkerson, Jayne, PhD (PI)
University of Minnesota Foundation
Families Preventing Diabetes Together, 2014-2016
Direct Costs: \$200,000 direct costs

Co-Investigator

Andrew Hansen, PhD (PI)
Department of Veterans Affairs
Development of Adaptive Prosthetic Ankle-Foot Systems, 2014-2017
\$752,779 direct costs

Co-Investigator

Lisa Chow, MD (PI)
National Institutes of Health
Training Effects on Skeletal Muscle Lipid Dynamics, 2014-2019
\$3,132,618 direct costs

Faculty Advisor

Patricia Salmi, PhD (PI)
National Institute on Disability Rehabilitation Research
Partnership in Wellness: A Training Curriculum for Youth With Intellectual and Developmental Disabilities, 2012-2016
\$405,699 direct costs

Co-Investigator

Eric Snyder, PhD (PI)
National Institutes of Health
Gene-by-Gene Interactions and Lung Fluid Balance in Patients with Heart Failure, 2011-2017
\$2,235,750 direct costs

Co-Investigator

Aaron Kelly, PhD (PI)
National Institutes of Health
Validation of Circulating Endothelial Cells and Microparticles in Youth, 2011-2016
\$2,290,742 direct costs

Co-Investigator

Xiufeng Li, PhD (PI)
University of Minnesota Foundation
Novel Functional MRI of Reno-Cerebrovascular Endothelial Dysfunction with PCO₂/PO₂ Challenges in Chronic Kidney Disease, 2015-2015
\$50,000 direct costs

Co-Investigator

Julia Steinberger, MD (PI)
Academic Health Center Seed Grant
Effect of a Home-based Fitness Intervention on Cardiometabolic Risk Profile in Pediatric Patients with Acute Lymphoblastic Leukemia (ALL), 2014-2015
\$30,000 direct costs

Co-Investigator

Adriana M. Montaña, PhD (PI)
National MPS Society
Manifestations of Cardiovascular Disease in Morquio A: Evaluation, Assessment, and Therapy, 2013-2015
\$60,000 direct costs

Principal Investigator

NFL Charities
Effects of Multiple Sports-Related Concussions on Neurocognition and Cerebral Vascular Function, 2012-2014
\$99,998 direct costs

Co-Investigator

Joseph Neglia, MD (PI)
Hyundai Hope on Wheels
Development of Methods to Measure Cerebral Vascular Function in Survivors of Childhood Acute Lymphoblastic Leukemia, 2011-2014
\$100,000 direct costs

Co-Principal Investigator

Aaron Kelly, PhD (Co-PI)
Community Health in Pediatrics Grant
Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth, 2011-2014
\$240,000 direct costs

Co-Investigator

Leslie Lytle, PhD (PI)
National Institute of Health
Evaluating Innovative Weight Gain Prevention Strategies for At-Risk College Students, 2009-2014
\$2,466,074 direct costs

Co-Investigator

Aaron Kelly, PhD (PI)
Community Health in Pediatrics Grant
A Pilot Weight Management and Physical Fitness Program to Improve Heart Health and Quality of Life for Morbidly Obese Children, 2010-2011
\$26,000 direct costs

Co-Investigator

Susan Murphy, MD (PI)
Department of Veterans Affairs
Fatigue and Physical Activity in Symptomatic Leg Osteoarthritis, 2008-2011
\$740,200 direct costs

Co-Investigator

Leslie Lytle, PhD (PI)
National Institutes of Health
Cardiovascular Risk and Insulin Resistance: Age 7-40, 2007-2011
\$3,738,228 direct costs

Co-Investigator

Julia Steinberger, MD (PI)
National Institute of Health
Metabolic Syndrome in Childhood Cancer Survivors, 2006–2011
\$3,610,747 direct costs

Co-Investigator

K Scott Baker, MD (PI)
National Institute of Health
Metabolic Syndrome Following Transplant for Leukemia, 2006-2011
\$1,314,179 direct costs

Co-Investigator

Leslie Lytle, PhD (PI)
National Institute of Health
Etiology of Childhood Obesity (ECHO) Study, 2006-2011
\$2,483,956 direct costs

Co-Investigator

Leslie Lytle, PhD (PI)
National Cancer Institute
Examining the Obesity Epidemic through Youth, Family, and Young Adults, 2005-2010
\$7,500,000 direct costs

Co-Investigator

Marla Reicks, PhD (PI)
USDA
Preventing Age-Related Weight Gain in Midlife Women, 2007-2010
\$937,722 direct costs

Principal Investigator

National Cancer Institute, University of Minnesota TREC Center
Biological Determinants of Obesity in Teens, 2006-2009
\$100,000 direct costs

Co-Investigator

Barbara Segal, MD (PI)
Lupus Foundation of Minnesota
Oxidative Stress and Endothelial Function in SLE, 2008-2009
\$35,000 direct costs

Co-Investigator

Caroline Blaum, MD (PI)
Department of Veterans Affairs,
Aerobic Performance, Mobility Limitations and Exercise in Older Adults with Diabetes, 2005-2008
\$701,053 direct costs

Co-Investigator

Alan Sinaiko, MD (PI)
National Institute of Health
Influence of Insulin on BP Change During Adolescence, 2004-2008
\$2,500,000 direct costs

Co-Investigator

Neil Alexander, MD (PI)
Department of Veterans Affairs
Functional Circuit Training in Older Adults with Congestive Heart Failure, 2003-2007
\$711,600 direct costs

Co-Investigator

Mark Pereira, PhD (PI)
American Heart Association
Dietary Composition and Exercise Tolerance in Obese Adults, 2004-2007
\$260,000 direct costs

Co-Investigator

James Gurney, PhD (PI)
National Institute of Health
Metabolic Syndrome in Adult Survivors of Childhood ALL, 2004-2006
\$250,000 direct costs

Co-Investigator

Marla Reicks, PhD (PI)
National Institute of Health
Predicting Energy Balance in Midlife Women, 2005-2006
\$281,846 direct costs

Co-Investigator

Virgil Mathiowetz, PhD (PI)
National Multiple Sclerosis Society
Effects of a Home-based Aerobic Exercise Program for Persons with Multiple Sclerosis, 2005-2006
\$44,000 direct costs

Co-Investigator

Daniel Kaiser, PhD (PI)
Minnesota Obesity Center
The Effects of Aerobic Exercise on Vascular Structure and Function in Obese Children, 2002-2005
\$40,000 direct costs

External Sources

Received at the University of Minnesota – Student Grants

Co-Sponsor

Kara Marlatt (Student PI)
American Heart Association
Effects of Statin Therapy on Arterial Stiffness in Young Adult Survivors of Childhood Cancer, 2013-2015
\$52,000 direct costs

Co-Sponsor

Kevin Burns (Student PI)
American Heart Association
Chronic Effects of Right Ventricular Pacing on Left Ventricular Torsion, 2008
\$26,000 direct costs

Sponsor

Danielle Templeton (Student PI)
National Cancer Institute, University of Minnesota TREC Center, 2006-2007
Biological Determinants of Obesity in Teens
\$10,000 direct costs

Co-Sponsor

Thomas Olson (Student PI)
American Heart Association
Effects of Strength Training on Indices of Vascular Inflammation and Adhesion, 2004-2005
\$49,000 direct costs

Sponsor

Aaron Kelly (Student PI)
American Heart Association
Effects of Exercise Training on Vascular Endothelial Function and Inflammation in Obese Children and Adolescents, 2003-2004
\$41,000 direct costs

Sponsor

Christopher DeSouza (Student PI)
University of Maryland College Park
College of Health and Human Performance Research Grant, 1994-1995
\$6,000 direct cost

External Sources

Pending Grants at University of Minnesota

Co-Investigator

Minnesota Partnership for Biotechnology and Medical Genomics
Development of a Mayo Clinic and University of Minnesota Cystic Fibrosis Consortium For The Assessment of a Mechanisms By Which Novel Therapies Can Improve Quality of Life And Survival In Patients With Cystic Fibrosis, 2014-2017
\$820,220 direct costs

Co-Investigator

Robert Liem, MD (PI)
National Institute of Health
Aerobic Exercise Training in Children and Adolescents with Sickle Cell Anemia
\$55,709 direct costs

External Sources

Grants Received at Another Institution

Co-Investigator

Neil Alexander, MD (PI)
Department of Veterans Affairs
Oxygen Kinetics, Mobility Task Performance, and Task Training in Older Adults, 1999-2003
\$540,400 direct costs

Principal Investigator

National Institute of Aging/Claude D. Pepper Pilot Grant
Effects of Age and Exercise Training on Skeletal Muscle Protein Turnover, 1999-2000
\$25,000 direct costs

Principal Investigator

Department of Veterans Affairs
The Effects of Age and Insulin on Protein Turnover, 1999-2000
\$15,000 direct costs

Principal Investigator

Department of Veterans Affairs
Insulin Action: Role of Skeletal Muscle and Insulin-Mediated Blood Flow, 1998-2002
\$463,600 direct costs

Principal Investigator

National Institute of Aging/National Institute of Health (SERCA)
Insulin Action, Sodium and Exercise in the Hypertension of Aging, 1995-2000
\$445,000 direct costs

Principal Investigator

University of Michigan - Spring/Summer Research Grant, "Insulin Action, Sodium and Exercise in the Hypertension of Aging, 1997
\$2,000 direct cost

Principal Investigator

National Institute of Aging/Claude D. Pepper Pilot Grant
Effects of Exercise on Blood Pressure and Hyperinsulinemia and Renal Function in the Elderly, 1994-1995
\$12,000 direct cost

Principal Investigator

National Institute of Aging, Geriatric Leadership Academic Award Grant Pilot Grant
Insulin Action, Sodium and Exercise in Hypertension, 1994-1995
\$5,000 direct cost

Principal Investigator

National Institute of Aging, National Research Service Award
Exercise, Blood Pressure and Metabolism in the Elderly, 1991-1994
\$291,600 direct cost

Principal Investigator

Findlay, Inc.
Prediction of Oxygen Uptake and Caloric Expenditure from the Findlay Road Machine, 1988-1989
\$1,500 direct cost

University Sources

Grants Received at University of Minnesota

Co-Investigator

Xiufeng Li, PhD (PI)
University of Minnesota Academic Health Center
Novel Functional MRI of Reno-Cerebrovascular Endothelial Dysfunction with PCO₂/PO₂ Challenges in Chronic Kidney Disease, 2014-2015
\$15,000 direct costs

Principal Investigator

University of Minnesota Clinical and Translational Science Institute Mini Pilot Funding Program
A Novel Method for Segmenting Lower Extremity Body Composition, 2013-2014
\$4,760 direct costs

Principal Investigator

University of Minnesota Grant-in-Aid
Effects of Obesity on Cognition and Cerebral Structure and Function, 2010-2011
\$32,810 direct costs

Principal Investigator

University of Minnesota Center for Applied Research and Educational Improvement
Summer Vacation Weight Gain: Changes in Physical Activity and Diet, 2010-2011
\$4,003 direct costs

Principal Investigator

University of Minnesota Grant-in-Aid
Effects of High Carbohydrate Drinks on Vascular Function in Adolescents, 2002-2004
\$24,191 direct costs

Publications (*student author under Dr. Dengel's direction)

Refereed Journal Articles

1. *Geijer JR, Evanoff NG, Kelly AS, Chernin MA, Stoltman MG, **Dengel DR**: Reproducibility of brachial vascular changes with alterations in end-tidal carbon dioxide. *Ultrasound in Medicine and Biology* 42(7):1450-1456, 2016.
2. *Geijer JR, Hultgren NE, Evanoff NG, Kelly AS, Chernin MA, Stoltman MG, **Dengel DR**: Comparison of brachial dilatory responses to hypercapnia and reactive hyperemia. *Physiological Measurement* 37:380-386, 2016.
3. *Evanhoff NG, Kelly AS, Steinberger J, **Dengel DR**: Peak shear and peak flow mediated dilation: a time course relationship. *Journal of Clinical Ultrasound* 44:182-187, 2016.
4. Marlatt KL, Farbakhsh K, **Dengel DR**, Lytle LA. Breakfast and fast food consumption are associated with selected biomarkers in adolescents. *Preventive Medicine Reports* 3:49-52, 2016.
5. Ryder JR, **Dengel DR**, Jacobs DR, Sinaiko AR, Kelly AS, Steinberger J: Relations among adiposity and insulin resistance with flow-mediated dilation, carotid intima-media thickness, and arterial stiffness in children. *Journal of Pediatrics* 168:205-211, 2016.
6. Bosch TA, Chow L, **Dengel DR**, Melhorn SJ, Webb M, Yancey D, Callahan H, De Leon MRB, Tyagi V, Schur EA: In adult twins, visceral fat accumulation depends more on exceeding sex-specific adiposity thresholds than on genetics. *Metabolism* 64:991-998, 2015.
7. Arena R, Whitsel L, Berra K, Lavie C, Kaminsky L, Williams M, Hivert MF, Franklin N, Myers J, **Dengel D**, Lloyd-Jones D, Guazzi M, Pinto F, Constantino F, Halle M, Gielen S, Dendale P, Niebauer J, Pelliccia A, Corra U, Piepoli M, Lianov L, Guthrie G: Healthy lifestyle interventions to combat non-communicable disease - a novel nonhierarchical connectivity model for key stakeholders: a policy statement from the American Heart Association, European Society of Cardiology, European Association for Cardiovascular Prevention and Rehabilitation and American College of Preventive Medicine. *European Heart Journal* 36:2097-2109, 2015.
8. Hopkins ND, **Dengel DR**, Stratton G, Kelly AS, Steinberger J, Zavala H, Marlatt KL, Perry D, Naylor LH, Green DJ: Age and sex relationship with flow-mediated dilation in healthy children and adolescents. *Journal of Applied Physiology* 119:926-933, 2015.
9. Arena R, Whitsel L, Berra K, Lavie C, Kaminsky L, Williams M, Hivert MF, Franklin N, Myers J, **Dengel D**, Lloyd-Jones D, Guazzi M, Pinto F, Constantino F, Halle M, Gielen S, Dendale P, Niebauer J, Pelliccia A, Corra U, Piepoli M, Lianov L, Guthrie G: Healthy lifestyle interventions to combat non-communicable disease - a novel nonhierarchical connectivity model for key stakeholders: a policy statement from the American Heart Association, European Society of

Cardiology, European Association for Cardiovascular Prevention and Rehabilitation and American College of Preventive Medicine. *Mayo Clinic Proceedings* 90(8):1082-1103, 2015.

10. Ciriigliaro CM, La Fountaine MF, **Dengel DR**, Bosch TA, Hindelong RE, Kirshblum SC, Sauer S, Asselin P, Spungen AM, Bauman WA: Visceral adiposity in persons with chronic spinal cord injury determined by dual energy x-ray absorptiometry. *Obesity* 23:1811-1817, 2015
11. *Ostrem JD, Evanoff NG, Kelly AS, **Dengel DR**: Presence of a high flow-mediated constriction phenomenon prior to flow-mediated dilation in normal weight, overweight and obese children and adolescents. *Journal of Clinical Ultrasound* 43:495-501, 2015.
12. *Nelson MT, Biltz GR, **Dengel DR**: Repeatability of respiratory exchange ratio time series. *Journal of Strength and Conditioning Research* 29(9):2550-2558, 2015.
13. Bosch TA, **Dengel DR**, Ryder JR, Kelly AS, Chow L: Fitness level is associated with sex-specific regional fat differences in normal weight young adults. *Journal of Endocrinology and Diabetes* 2(2):1-5, 2015.
14. *Bosch TA, **Dengel DR**, Kelly AS, Sinaiko AR, Moran A, Steinberger J: Visceral adipose tissue measured by DXA correlates with measurement by CT and is associated with cardiometabolic risk factors in children. *Pediatric Obesity* 10:172-179, 2015.
15. Hill AP, **Dengel DR**, Lubans DR: Supporting public health priorities: recommendations for physical education and physical activity promotion in schools. *Progress in Cardiovascular Diseases* 57(4):368-374, 2015.
16. *Watkins AN, Kelly AS, Prineas RJ, Marlatt KL, **Dengel DR**, Sinaiko AR, Moran A, Steinberger J: Childhood wrist circumference is not a predictor of insulin resistance in adulthood. *Journal of Pediatrics* 166:1085-1087, 2015.
17. *Bosch TA, Steinberger J, Sinaiko AR, Moran A, Jacobs DR, Kelly AS, **Dengel DR**: Identification of sex-specific thresholds for accumulation of visceral adipose tissue in adults. *Obesity* 23:437-444, 2015.
18. Slater ME, Ross JA, Kelly AS, **Dengel DR**, Hodges JS, Sinaiko AR, Moran A, Lee J, Perkins JL, Chow LS, Baker KS, Steinberger J: Physical activity and cardiovascular risk factors in childhood cancer survivors. *Pediatric Blood & Cancer* 62:305-310, 2015.
19. *Ostrem JD, **Dengel DR**, Marlatt KL, Julia Steinberger J: Comparison of baseline brachial artery measurements and effect on peak flow-mediated dilation. *Clinical Physiology and Functional Imaging* 35:34-40, 2015.
20. *Taylor NE, **Dengel DR**, Lund TC, Rudser KD, Orchard PJ, Steinberger J, Whitley CB, Polgreen LE: Isokinetic muscle strength differences in patients with mucopolysaccharidosis I, II, and VI. *Journal of Pediatric Rehabilitation Medicine: An Interdisciplinary Approach* 7:353-360, 2014.
21. Kelly AS, Marlatt KL, Steinberger J, **Dengel DR**: Younger age is associated with lower reactive hyperemic index but not lower flow-mediated dilation among children and adolescents. *Atherosclerosis* 234(2):410-434, 2014.
22. *Bosch TA, Burruss TP, Weir NL, Fielding KA, Engel BE, Weston TD, **Dengel DR**: Abdominal body composition difference in NFL football players. *Journal of Strength and Conditioning Research* 28(12):3313-3319, 2014.

23. Kelly AS, Rudser KD, **Dengel DR**, Kaufman CL, Reiff MI, Norris AL, Metzige AM, Steinberger J: Cardiac autonomic dysfunction and arterial stiffness among children and adolescents with ADHD treated with stimulants. *Journal of Pediatrics* 165:755-759, 2014.
24. Kelly AS, **Dengel DR**, Hodges JS, Zhang L, Moran A, Chow LS, Sinaiko AR, Steinberger J: The relative contributions of the abdominal visceral and subcutaneous fat depots to cardiometabolic risk in youth. *Clinical Obesity* 4(2):101-107, 2014.
25. *Gusmer RJ, Bosch TA, Watkins AN, Ostrem JD, **Dengel DR**: Comparison of FitBit® Ultra to ActiGraph™ GT1M for assessment of physical activity in young adults during treadmill walking. *The Open Sports Medicine Journal* 8:11-15, 2014.
26. *Geijer JR, Stanish H, Draheim CC, **Dengel DR**: Bone mineral density in adults with Down Syndrome, intellectual disability, and non-disabled adults. *American Journal on Intellectual and Developmental Disabilities* 119:107-114, 2014.
27. *Nelson MT, Biltz GR, **Dengel DR**: Cardiovascular and ride time-to-exhaustion effects of an energy drink. *Journal of the International Society of Sports Nutrition* 11:2-7, 2014.
28. Wang RY, Braunlin EA, Rudser KD, **Dengel DR**, Metzige AM, Covault KK, Polgreen LE, Shapiro E, Steinberger J, Kelly AS: Carotid intima-media thickness is increased in patients with treated mucopolysaccharidoses types I and II, and correlates with arterial stiffness. *Molecular Genetics and Metabolism* 111:128-132, 2014.
29. Petryk A, Polgreen LE, Zhang L, Hodges JS, **Dengel DR**, Hoffmeister PA, Steinberger J, Baker KS: Bone mineral deficits in recipients of hematopoietic cell transplantation: the impact of young age at transplant. *Bone Marrow Transplantation* 49:258-263, 2014.
30. **Dengel DR**, Kelly AS, Zhang L, Hodges JS, Baker KS, Steinberger J: Signs of early sub-clinical atherosclerosis in childhood cancer survivors. *Pediatric Blood & Cancer* 61:532-537, 2014.
31. **Dengel DR**, Bosch TA, Burruss TP, Fielding KA, Engel BE, Weir NL, Weston TD: Body composition of National Football League players. *Journal of Strength and Conditioning Research* 28(1):1-6, 2014.
32. *Marlatt KL, Steinberger J, **Dengel DR**, Sinaiko A, Moran A, Chow LS, Steffen LM, Zhou X, Kelly AS: Impact of pubertal development on endothelial function and arterial elasticity. *The Journal of Pediatrics* 163(5):1432-1436, 2013.
33. Steffen LM, Sinaiko AR, Zhou X, Moran A, Jacobs DR, Korenfeld Y, **Dengel DR**, Chow LS, Steinberger J: Relation of adiposity, television and screen time in offspring to their parents. *BMC Pediatrics* 13:133, 2013.
34. *Templeton DL, John R, Painter P, Kelly AS, **Dengel DR**: Effects of the left ventricular assist device (LVAD) on the compliance and distensibility of the carotid artery. *Heart and Vessels* 28(3):377-384, 2013.
35. *Marlatt KL, Kelly AS, Steinberger J, **Dengel DR**: The influence of gender on carotid artery compliance and distensibility in children and adults. *Journal of Clinical Ultrasound* 41(6):340-346, 2013.

36. *McCue, MC, Marlatt KL, Sirard J, **Dengel DR**: Examination of changes in youth diet and physical activity over the summer vacation period. *Internet Journal of Allied Health Sciences and Practice* 11(1):ISSN 1540-580X, 2013.
37. *Templeton DL, Mosser KHH, Chen CN, Stone MD, John R, **Dengel DR**, Thompson LV: Effects of left ventricular assist device (LVAD) placement on myocardial oxidative stress markers. *Heart, Lung & Circulation* 21(9):586-597, 2012.
38. *Reiff CJ, Marlatt KL, **Dengel DR**: Difference in caloric expenditure in sitting versus standing desks. *Journal of Physical Activity and Health* 9:1009-1011, 2012.
39. Polgreen LE, Petryk A, Dietz AC, Sinaiko AR, Leisenring W, Goodman P, Steffen L, Perkins JL, **Dengel DR**, Baker KS, Steinberger J: Modifiable risk factors associated with bone deficits in childhood cancer survivors. *BMC Pediatrics* 12:40, 2012.
40. *Lou X, Templeton DL, John R, **Dengel DR**: Effects of continuous flow left ventricular assist device support on microvascular endothelial function. *Journal of Cardiovascular Translational Research* 5(3):345-350, 2012.
41. *McCue MC, Marlatt KL, Kelly AS, Steinberger J, **Dengel DR**: Evaluation of gender differences in endothelium-independent dilation using peripheral arterial tonometry. *Clinical Physiology and Functional Imaging* 32:94-98, 2012.
42. Hearst MO, Sirard JR, Lytle LA, **Dengel DR**, Berrigan D: Comparison of 3 measures of physical activity and associations with blood pressure, HDL, and body composition in a sample of adolescents. *Journal of Physical Activity and Health* 9:78-85, 2012.
43. *Marlatt KL, McCue MC, Kelly AS, Metzigg AM, Steinberger J, **Dengel DR**: Endothelium-independent dilation in children and adolescents. *Clinical Physiology and Functional Imaging* 31:390-393, 2011.
44. *Burns KV, Kaufman CL, Kelly AS, Parah JS, **Dengel DR**, Bank AJ: Torsion and dyssynchrony differences between chronically paced and non-paced heart failure patients. *Journal of Cardiac Failure* 17(6):495-502, 2011.
45. Fulkerson JA, Farbakhsh K, Lytle L, Hearst MO, **Dengel DR**, Pasch KE, Kubik MY: Away-from-home family dinner sources and associations with weight status, body composition and related biomarkers of chronic disease among adolescents and their parents. *Journal of the American Dietetic Association* 111:1892-1897, 2011.
46. **Dengel DR**, Jacobs DR, Jr, Steinberger J, Moran AM, Sinaiko AR: Vascular function and structure in young adults: differences between males and females. *Clinical Science* 120(4):153-160, 2011.
47. Bronas UG, **Dengel DR**: Influence of vascular oxidative stress and inflammation on the development and progression of atherosclerosis. *American Journal of Lifestyle Medicine* 4(6):521-534, 2010.
48. *Templeton DL, Kelly AS, Steinberger J, **Dengel DR**: Lower relative bone mineral content in obese adolescents: role of non-weight bearing exercise. *Pediatric Exercise Science* 22:557-568, 2010.

49. Draheim CC, Geijer JR, **Dengel DR**: Comparison of intima-media thickness of the carotid artery and cardiovascular disease risk factors in adults with versus without the Down Syndrome. *American Journal of Cardiology* 106:1512-1516, 2010.
50. **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* 4(6):445-456, 2010.
51. **Dengel DR**, Hearst MO, Harmon JH, Sirard J, Heitzler CD, Lytle LA: Association of the home environment with cardiovascular and metabolic biomarkers in youth. *Preventive Medicine* 51:259-261, 2010. PMID: PMC2939178
52. *Scott AT, Metzigg AM, Hames RK, Schwarzenberg SJ, **Dengel DR**, Biltz GR, Kelly AS: Acanthosis nigricans and oral glucose tolerance in obese children. *Clinical Pediatrics* 49(1):69-71, 2010.
53. **Dengel DR**, Hearst MO, Harmon JH, Forsyth A, Lytle LA: Does the built environment relate to the metabolic syndrome in adolescents? *Health & Place* 15:946-951, 2009. PMID: PMC2743682
54. *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.
55. *Olson TP, Tracy J, **Dengel DR**: Relationship between ventilatory threshold and cerebral blood flow during maximal exercise in humans. *The Open Sports Medicine Journal* 3:9-13, 2009.
56. 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. PMID: PMC2597561
57. 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.
58. *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.
59. *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.
60. *Olson TP, Tracy JE, **Dengel DR**: Validity of a low-flow pneumotach and portable metabolic measurement system. *The Open Sports Medicine Journal* 2:23-27, 2008.
61. **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.
62. **Dengel DR**, Brown MD, Ferrell RE, Reynolds TH, Supiano MA: A preliminary study on T-786c endothelial nitric oxide synthase gene and renal hemodynamic and blood pressure responses to dietary sodium. *Physiological Research* 56:393-401, 2007.

63. 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.
64. 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.
65. *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. PMID: PMC2293959
66. *Olson TP, **Dengel DR**, Leon AS, Schmitz KH: Changes in inflammatory biomarkers following one-year of moderate resistance training in overweight women. *International Journal of Obesity* 31:996-1003, 2007.
67. *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.
68. *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.
69. *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.
70. *Reynolds TH, Supiano MA, **Dengel DR**: Regional differences in glucose clearance: effects of insulin and resistance training on arm and leg glucose clearance in older hypertensive individuals. *Journal of Applied Physiology* 102:985-991, 2007.
71. **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.
72. *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. PMID: PMC1829365
73. *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.
74. *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.
75. *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.
76. **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.

77. Anderson NJ, Cassidy PE, Janssen LL, **Dengel DR**: Peak inspiratory flows of adults exercising at light, moderate and heavy workloads. *Journal of the International Society for Respiratory Protection* 23:53-63, 2006.
78. **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.
79. *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.
80. **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.
81. 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.
82. *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.
83. *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.
84. 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.
85. *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.
86. *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.
87. *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.
88. *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.
89. *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.

90. 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.
91. *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.
92. **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.
93. *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.
94. *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.
95. **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.
96. 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.
97. *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.
98. *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.
99. 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.
100. *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.
101. 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.
102. Hagberg JM, Ferrell RE, Katznel 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.

103. **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.
104. **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.
105. **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.
106. 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.
107. 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.
108. *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.
109. **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.
110. *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.
111. *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.
112. **Dengel DR**, Goldberg AP, Mayuga RS, Kairis GM, Weir MR: Insulin resistance, elevated glomerular filtration fraction and renal injury. *Hypertension* 28:127-132, 1996.
113. **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.
114. 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.
115. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Impaired insulin sensitivity and maximal responsiveness in older hypertensives. *Hypertension* 23:320-324, 1994.
116. **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.

117. **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 & Science in Sports & Exercise* 26:1307-1315, 1994.
118. **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.
119. 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.
120. **Dengel DR**, Weyand PG, Black DM, Cureton KJ: Effect of varying levels of hypohydration on responses during submaximal cycling. *Medicine & Science in Sports & Exercise* 24:1096-1101, 1992.
121. 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 & Science in Sports & Exercise* 23:766-773, 1991.
122. **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.
123. 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.
124. 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.
125. 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.
126. **Dengel DR**, Flynn MG, Costill DL, Kirwan JP: Determinants of success during triathlon competition. *Research Quarterly for Exercise and Sport* 60:234-238, 1989.
127. 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.

Non-refereed Journal Articles

1. **Dengel DR**, Dengel OH: Body Composition: Methods and importance for performance and health. *Techniques for Track & Field and Cross Country* 9(4):30-43, 2016.
2. *Gusmer RJ, **Dengel DR**: Iron: The missing nutritional link to performance. *Techniques for Track & Field and Cross Country* 6(1):8-16, 2012.
3. **Dengel DR**: Hand speed appears related to amateur boxing success. *Boxing USA* 10(1):14, 1991.
4. **Dengel DR**: Plyometric training: develops speed, strength. *Boxing USA* 7(3):9-11, 1988.
5. **Dengel DR**: Triathlon performances – the scientific facts. *New Zealand Triathlete* 14:31-33, 1987.

6. Kearney JT, **Dengel DR**: A quick check on endurance. *Boxing USA* 6(3):11, 1987.

Chapters in Books

1. **Dengel DR**, Marlatt KL, Raymond CJ: The effects and long-term outlook of cancer therapies on cardiovascular structure and function in childhood cancer survivors. In Watanabe HS (ed.), *Horizons in Cancer Research*. Volume 61. New York, NY: Nova Science Publishers, Inc., pp.149-176, 2016.
2. Marlatt KL, **Dengel DR**: Effects of cancer therapies on vascular structure and function in childhood cancer survivors. In Keaton TH (ed.), *Endothelial Dysfunction: Risk factors, role in cardiovascular diseases and therapeutic approaches*. Hauppauge, NY: Nova Science Publishers, Inc., pp. 1-25, 2014.
3. **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.
4. 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.
5. **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.

Proceedings of Conferences

1. **Dengel DR**, Hearst MO, Harmon JH, Lytle LA: Impact of changes in screen time on blood profiles and blood pressure in adolescents over a two year period. In: Williams CA, Armstrong N (eds.), *Children and Exercise XXVII: The Proceedings of the XXVIIth International Symposium of the European Group of Pediatrics Work Physiology*, September, 2011. Oxon, England: Routledge, pp. 121-125, 2012.
2. **Dengel DR**, Hearst MO, Harmon JH, Forsyth A, Lytle LA: Impact of the built environment on metabolic syndrome and other physiology variables. In: Baquet G, Berthoin S (eds.), *Children and Exercise XXV: The Proceedings of the 25th Pediatric Work Physiology Meeting*. Oxon, England: Routledge, pp. 59-64, 2011.
3. 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.
4. 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.
5. 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

1. Ryder JR, O'Connell M, Bosch TA, Chow L, Rudser KD, **Dengel DR**, Fox CK, Steinberger J, Kelly AS: Impaired cardiac autonomic nervous system function is associated with pediatric hypertension independent of adiposity. *Pediatrics Research* (in press).
2. **Dengel DR**, Ryder JR: Impact of health status and lifestyle modifications on vascular structure and function in children and adolescents. *American Journal of Lifestyle Medicine* (in press).
3. **Dengel DR**, Evanoff NG, Marlatt KL, Geijer JR, Mueller BA, Lim KO: Reproducibility of Blood Oxygen Level Dependent Signal Changes with End-Tidal Carbon Dioxide Alterations. *Clinical Physiology and Functional Imaging* (in press).
4. *Ostrem JD, Evanoff NG, Ryder JR, Steinberger J, Sinaiko, AR, Bisch KL, Brinck NM, **Dengel DR**: High-Flow Mediated Constriction is Not Influenced by Biomarkers of Cardiovascular and Metabolic Risk. *Journal of Clinical Ultrasound* (in press).
5. *Ostrem JD, Evanoff NG, Ryder JR, **Dengel DR**: Intra- and Inter-day Reproducibility of High-Flow Mediated Constriction Response in Young Adults. *Clinical Physiology and Functional Imaging* (in press).
6. *Raymond CJ, Bosch TA, Bush FK, Chow LS, **Dengel DR**: Accuracy and Reliability of Assessing Lateral Compartmental Leg Composition Using DXA. *Medicine and Science in Sports and Exercise* (in press).
7. *Uithoven KE, Ryder JR, Brown R, Rudser KD, Evanoff NG, **Dengel DR**, Kelly AS: Determination of Bilateral Symmetry of Carotid Artery Structure and Function in Children and Adolescents. *Journal of Vascular Diagnostics and Interventions* (in press).

Articles In Review

1. Ryder JR, Pankratz ND, **Dengel, DR**, Pankow JS, Jacobs DR, Sinaiko AR, Gooty V, Steinberger J: Heritability of vascular structure and function: a parent-child study. *Journal of American Heart Association* (in review).
2. *Nelson MT, Biltz GR, **Dengel DR**: Comparison of two heart rate analysis programs, Kubios and SphygmoCor®. *Clinical Autonomic Research* (in review).
3. Polgreen LE, Frohnert B, Thomas W, Chahla S, **Dengel DR**, Kelly AS, Nathan B: Associations of osteocalcin with glucose metabolism in obese and non-obese adolescents. *Clinical Endocrinology* (in review).
4. *Marlatt KL, Steinberger J, Rudser KD, **Dengel DR**, Sadak KT, Lee JL, Blaes A, Duprez D, Perkins PL, Ross JA, Kelly AS: The effect of atorvastatin of vascular function and structure in young adult survivors of childhood cancer: a randomized, placebo-controlled pilot and feasibility clinical trial. *Journal of Adolescent and Young Adult Oncology* (in review).
5. Malhorta S, Cirnigliaro CM, La Fontaine MF, Kirshblum SC, **Dengel DR**, Spungen AM, Bauman WA: Relationships between visceral fat, inflammatory mediators, and insulin resistance by HOMA-IR in persons with spinal cord injury. *Spinal Cord Journal* (in review).
6. Hummel SL, Herald J, Alpert C, Murphy SL, Gretebeck KA, Osevala NM, Vaitkevicius PV, Champoux WS, **Dengel DR**, Alexander NB: Oxygen uptake kinetics, functional mobility, and

physical activity in older adults with systolic heart failure. *Journal of Geriatric Cardiology* (in review).

7. Zavala H, Ryder JR, Steinberger J, Kelly AS, Sinaiko AR, Jacobs DR, **Dengel DR**: Role of sex, age and adiposity on endothelium-independent dilation in children. *Atherosclerosis* (in review).
8. Bosch TA, Carbuhn A, Stanforth PR, Oliver JM, Keller KA, Dengel DR: Body Composition and Bone Mineral Density of Division 1 Collegiate Football Players, a Consortium of College Athlete Research (C-CAR) Study. *Journal of Strength and Conditioning Research* (in review).

Presentations, Posters, and Exhibits

Extramural Invited Presentations

1. "Pediatric Vascular Health: Growing Up", invited presentation, Southeastern Neonatal/Pediatric Nutrition Conference, Wrightsville Beach, North Carolina, November 11, 2016.
2. "The Paradox of Severe Obesity And Vascular Function", invited presentation, East Carolina University, Greenville, North Carolina, November 10, 2016.
3. "Frontiers in Body Composition Analysis From NFL Players to Infants and Beyond", invited presentation, East Carolina University, Greenville, North Carolina, November 8, 2016.
4. "Sports Nutrition: Fueling Athletes To The Olympics", invited presentation, Guatemalan Sports Confederation and the Guatemalan Olympic Committee, Guatemala City, Guatemala, April 13, 2016.
5. "Body Composition Assessment for Sport", Guatemalan Sports Confederation and the Guatemalan Olympic Committee, Guatemala City, Guatemala, April 13, 2016.
6. "Optimal Gender Specific Physical Activity Programs in the School System", invited presentation, American Heart Association Scientific Sessions, Orlando, Florida, November 9, 2015.
7. "New Frontiers in Body Composition Analysis From NFL Players to Infants and Beyond", invited presentation, 2015 Center for Clinical Movement Science Research Day, University of Minnesota, Minneapolis, Minnesota, May 8, 2015.
8. "Signs of Early Sub-Clinical Atherosclerosis in Childhood Cancer Survivors", invited presentation, 6th Annual Cardiovascular Retreat, University of Minnesota, Minneapolis, Minnesota, July 30, 2014.
9. "Cardiovascular Health in Cancer Survivors: Research and Implications", invited seminar, 9th Annual Cancer Survivorship Conference: Exercise after Cancer, University of Minnesota, Minneapolis, Minnesota, May 17, 2014.
10. "New Ideas on Diagnostic Testing for Traumatic Brain Injury", invited seminar, Minnesota Technical Symposium, Medtronic Headquarters, Findley, Minnesota, March 27, 2014.
**Keynote Presentation*
11. "Signs of Early Sub-Clinical Atherosclerosis in Childhood Cancer Survivors", invited presentation, College of Education and Human Development Research Day, University of Minnesota, Minneapolis, Minnesota, March 25, 2014.

12. "Emerging Diagnostic Tools and Potential Therapies Under Investigation", invited seminar, Coalition for Concussion Treatment, Concussion Awareness Summit, United Nations, New York City, New York, January 29, 2014.
13. "Physical Education Trends in the United States", invited seminar, American Heart Association Scientific Sessions, Dallas, Texas, November 18, 2013.
14. "Pediatric Vascular Health: Growing Up", invited seminar, Pediatric Grand Rounds, Department of Pediatrics, University of Minnesota, Minneapolis, Minnesota, September 4, 2013.
15. "New Ideas on Diagnostic Testing For Traumatic Brain Injury", invited seminar, Coalition for Concussion Treatment, Concussion Awareness Summit, Minneapolis, Minnesota, June 21, 2013.
16. "Peak VO_2 or VO_{2max} : That is the Question", invited debate, North American Society for Pediatric Exercise Medicine, Philadelphia, Pennsylvania, August 16, 2012.
17. "**Goals of Metabolic Health Research", invited seminar, GE Lunar National Sales Meeting, Phoenix, Arizona, January 24, 2012.
**Keynote Presentation*
18. "New Frontiers in Adolescent Obesity and Vascular Function", invited seminar, Integrated Vascular Biology Laboratory, University of Colorado, Boulder, Colorado, June 3, 2011.
19. "Monitoring Bone Density Preoperatively: Is It Practical?" 7th Annual Bariatric Education, Department of Surgery, University of Minnesota, Minneapolis, Minnesota, May 25, 2011.
20. "Imaging The Effects of Cancer Treatments in Peripheral and Cerebral Vascular Beds", invited seminar, Iowa Institute for Biomedical Imaging, University of Iowa, Iowa City, Iowa, April 21, 2011.
21. "Childhood Obesity: Vascular Consequences and Solutions", invited seminar, Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, Liverpool, England, March 17, 2011.
22. "The Effects Of Chemotherapy And Radiation On Vascular Function: From Peripheral To Cerebral", invited seminar, Cancer Outcomes and Survivorship Program, University of Minnesota, Minneapolis, Minnesota, March 7, 2011.
23. "The Effects of Obesity on Vascular Function: From Peripheral to Cerebral", invited seminar, Neurology Grand Rounds, Department of Neurology, University of Minnesota, Minneapolis, Minnesota, February 3, 2011.
24. "**Adolescent Vascular Health: The Role of Obesity, Diet and Exercise", invited seminar, 2010 Annual Nutrition Seminar, South Dakota State University, Department of Nutrition, Food Science & Hospitality, Brookings, South Dakota, March 16, 2010.
**Keynote Presentation*
25. "Super Sizing Our Kids: Problems and Solutions Related to Childhood Obesity", invited seminar, Florida Minne-College, Naples, Florida, January 30, 2010.

26. "The Roles of Obesity, Physical Activity and Weight Loss on Vascular Health in Adolescents", invited seminar, University of Maryland, Department of Kinesiology, College Park, Maryland, November 12, 2009.
27. "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.
28. "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.
29. "An Exercise Intervention for Cancer Survivors", invited seminar, Cancer Outcomes & Survivorship Research Group Seminar, University of Minnesota, Minneapolis, Minnesota, December 1, 2008.
30. "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.
31. "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.
32. "The GCRC Human Performance Laboratories", invited seminar, Office of Clinical Research Forum, University of Minnesota, Minneapolis, Minnesota, September 23, 2008.
33. "Guideline For Personal Health – Exercise", invited seminar, Office of Clinical Research, University of Minnesota, Minneapolis, Minnesota, June 6, 2008.
34. "Solutions to Impaired Endothelial Function in Overweight Adolescents", invited seminar, City-Wide Conference in Endocrinology and Diabetes, Minneapolis, Minnesota, November 15, 2007.
35. "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.
36. "**Children: A Special Population", invited seminar, Northland Regional Chapter American College of Sports Medicine Annual Fall Meeting, Brookings, South Dakota, October 4, 2007.
**Keynote Presentation*
37. "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.
38. "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.
39. "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.

40. "Super-Size Me: The Epidemic of Childhood Obesity", invited seminar, Saturday Scholars, University of Minnesota, Minneapolis, Minnesota, September 17, 2005.
41. "Endothelial Dysfunction in Children: The Role of Obesity and Exercise", invited seminar, Lillehei Heart Institute Lecture Series, Minneapolis, Minnesota, January 19, 2005.
42. "Decline in Vascular Function in Children: The Role of Obesity and Exercise", invited seminar, Karolinska Institutet, Section of Integrative Physiology, Stockholm, Sweden, May 28, 2004.
43. "The Role of Oxygen Kinetics in Impairments in Mobility & Function in Older Adults" invited seminar, Minneapolis VA Medical Center, Minneapolis, Minnesota, October 2, 2002.
44. "What Does Aerobic Exercise Add To A Weight Loss Program?" invited seminar, Minnesota Obesity Center, Minneapolis, Minnesota, May 14, 2001.
45. "The Pressure is on: Non-Pharmacologic Treatment of Hypertension in the Elderly," invited seminar, Center on Aging, Minneapolis, Minnesota, March 22, 2001.
46. "Insulin Does It Have A Role In Alzheimer's Disease?" invited seminar, Minneapolis VA Medical Center, Minneapolis, Minnesota, April 18, 2001.
47. "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.
48. "The Interplay Between Insulin And Sodium In Hypertension," invited seminar, University of Maryland, Department of Kinesiology, College Park, Maryland, March 1, 2000.
49. "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.
50. "Exercise And Preventive Health," Celebration of Health, University of Michigan Geriatrics Center, Ann Arbor, Michigan, June 28, 1997.
51. "Role of Physical Activity And Aging," Congresswoman Lynn Rivers Senior Citizen Task Force, Van Buren, Michigan, June 2, 1997.
52. "Effects of Physical Activity on Bone," invited seminar, Division of Geriatric Medicine, University of Michigan, Ann Arbor, Michigan, April 1, 1997.
53. "Benefits of Physical Activity," invited seminar, University of Michigan Turner Clinic, University of Michigan, Ann Arbor, Michigan, February 27, 1997.
54. "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.
55. "Nonpharmacologic Control of Hypertension," invited seminar, Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, March 5, 1996.
56. "Benefits And Prescription of Exercise For Older Patients," invited seminar, Division of Geriatric

Medicine, University of Michigan, Ann Arbor, Michigan, February 27, 1996.

57. "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.
58. "Alterations In Syndrome X," invited seminar, Department of Exercise Science, East Carolina State University, Greenville, North Carolina, November 1, 1994.
59. "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.

Papers Presented at Professional Meetings and Conferences

1. "Vascular Function in Leukemia Survivors After Hematopoietic Cell Transplantation", American Heart Association Scientific Sessions, Orlando, Florida, November 9, 2015.
2. "Signs of Early Sub-Clinical Atherosclerosis in Childhood Cancer Survivors", American Heart Association Scientific Sessions, Dallas, Texas, November 17, 2013.
3. "Dual-Energy X-Ray Absorptiometry for Quantification of Abdominal Visceral Fat in Adolescents", North American Society for Pediatric Exercise Medicine, Philadelphia, Pennsylvania, August 18, 2012.
4. "Impact of Changes in Screen Time on Blood Profiles and Blood Pressure in Adolescents Over a Two Year Period", 27th International Symposium of European Group of Pediatric Work Physiology, Mawgan Porth, United Kingdom, September 20, 2011.
5. "Longitudinal Effects of Screen Time and Physical Activity on Blood Pressure in Adolescents", American College of Sports Medicine Annual Meeting, Denver, Colorado, June 1, 2011.
6. "Impact of the Home Environment on Metabolic Syndrome and Other Physiological Variables", 25th International Symposium of Pediatric Work Physiology, Le Touquet, France, October 2, 2009.
7. "**Scope of Possibilities in Clinical Physiology", invited symposia, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, May 31, 2008.
*Symposia Presentation, Co-Chairman of Symposia
8. "**Clinical Exercise Physiology: Broadening the Profession", invited symposia, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, May 31, 2008.
*Keynote Symposia Presentation, Co-Chairman of Symposia
9. "Diet Alone Does Not Improve Endothelial Function in Overweight Children", 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Orlando, Florida, February 28, 2007.
10. "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.
11. "Effect Of Acute Hyperglycemia On Endothelial Function In Normal And Overweight Children", American College of Sports Medicine Annual Meeting, Nashville, Tennessee, May 30, 2005.

12. "Effects of Oral Glucose Loading On Endothelial Function In Overweight Children", American Heart Association Flier Symposium, San Francisco, California, March 4, 2004.
13. "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.
14. "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.
15. "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.
16. "Role Of The Renin-Angiotensin-Aldosterone System In Sodium Sensitivity In Older Hypertensives," Experimental Biology Meeting, San Diego, California, April 15, 2000.
17. "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.
18. "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.
19. "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.
20. "*Role of Exercise As A Non-Pharmacological Therapy and in Preventing Diseases Associated With Aging," ", invited symposia, American College of Sports Medicine Annual Meeting, Orlando Florida, June 5, 1998
*Keynote Symposia Presentation, Co-Chairman of Symposia
21. "*Physical activity, fitness, and hypertension," invited seminar, American College of Sports Medicine Annual Meeting, Orlando Florida, June 5, 1998.
*Symposia Presentation, Co-Chairman of Symposia
22. "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.
23. "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.
24. "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.
25. "Differentiating The Effects Of Exercise And Weight Loss On Glucose Metabolism," American

College of Sports Medicine Annual Meeting, Minneapolis, Minnesota, June 2, 1995.

26. "Effect Of Aerobic Exercise And Weight Loss On "Syndrome X," American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 3, 1994.
27. "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.
28. "VO₂max 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.
29. "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.
30. "The Insulin Resistance/Hypertension Link In Older Obese Sedentary Men," The Gerontological Society of America Annual Scientific Meeting, Washington D.C., November 19, 1992.
31. "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.
32. "Effect Of Dehydration On Ratings Of Perceived Exertion," American College of Sports Medicine Annual Meeting, Orlando, Florida, May 30, 1991.
33. "Arterial Pressure And Plasma Volume Loss During Exercise In Swine," American College of Sports Medicine Southeast Regional Meeting, Atlanta, Georgia, November 15, 1990.
34. "Prediction Of VO₂ Using A Bicycle Wind-Load Simulator," American College of Sports Medicine Southeast Regional Meeting, Atlanta, Georgia, November 16, 1989.
35. "Importance Of Upper Body Strength In Lugers," American College of Sports Medicine Annual Meeting, Baltimore, Maryland, June 2, 1989.
36. "Relationship Of Punch Velocity In Amateur Boxing," American College of Sports Medicine Southeast Regional Meeting, Winston-Salem, North Carolina, November 15, 1988.
37. "Training Responses In National Team Boxers," American College of Sports Medicine Annual Meeting, Las Vegas, Nevada, May 29, 1987.
38. "Metabolic Determinants Of Success During Triathlon Competition," American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, May 30, 1986.

Published Abstracts

1. **Dengel DR**, Kelly AS, Zhang L, Hodges JS, Baker KS, Steinberger J: Signs of Early Sub-Clinical Atherosclerosis in Childhood Cancer Survivors. *Circulation* 128:A10400, 2103.
2. Kelly AS, Rudser KD, **Dengel DR**, Kaufman CL, Reiff MI, Norris AL, Metzigg AM, Steinberger J: ADHD Stimulant Medication Use is Associated With Cardiac Autonomic Dysfunction and Arterial Stiffness in Children and Adolescents. *Circulation*. 128:A13866, 2013.

3. Steinberger J, Sinaiko AR, Jacobs DR, **Dengel DR**, Zhou X, Moran A, Steffen LM: Excessive Gain in BMI Between Age 7-16 is Related to Cardiovascular Disease Risk in Adulthood: A Longitudinal Study. *Circulation* 127:A046, 2013.
4. Eckman PM, Templeton D, Hozayen S, Baker P, John R, Colvin-Adams M, **Dengel D**: No Change in Endothelium Dependent Flow-Mediated Dilation Following Continuous Flow Ventricular Assist Device. *The Journal of Heart and Lung Transplantation* 31:S262, 2012.
5. Hozayen S, Somani A, Nair S, **Dengel D**, John R, Hamel A, Eckman PM: Plasma NOx Decreases Following Continuous Flow Left Ventricular Assist Device Despite Lack of Change in Shear Stress. *The Journal of Heart and Lung Transplantation* 31:S130, 2012.
6. Templeton DL, **Dengel DR**, Kelly AS, Painter P, Eckman PM, John R: Impact of Continuous Flow Left Ventricular Assist Device (LVAD) on Carotid Artery Compliance and Distensibility. *The Journal of Heart and Lung Transplantation* 31:S156-S157, 2012.
7. **Dengel DR**, Hearst MO, Murray DM, Lytle, LA: Longitudinal Effects of Screen Time and Physical Activity on Blood Pressure in Adolescent. *Medicine & Science in Sports & Exercise* 43:390, 2011.
8. Marlatt KL, McCue MC, Kelly AS, Metzigg AM, Steinberger J, **Dengel DR**: Endothelium-Independent Dilation In Adolescents. *Medicine & Science in Sports & Exercise* 43:26, 2011.
9. Geijer JR, Draheim CC, Stanis H, **Dengel DR**: Comparison Of Bone Density Measures In Adults With Down Syndrome, Intellectual Disability, And Non-disabled Adult. *Medicine & Science in Sports & Exercise* 43:251-252, 2011.
10. McCue MC, Marlatt KL, Kelly AS, Steinberger J, **Dengel DR**: Evaluation of Endothelium-Independent Dilation Using Peripheral Arterial Tonometry. *Medicine & Science in Sports & Exercise* 43:737-738, 2011.
11. Sharp TA, Gordon CA, Frassaint AM, Babby SG, **Dengel DR**: Fasting Lipid, Inflammatory And Oxidative Stress Associations with Vascular Function In Pre- And Early-pubertal Children. *Medicine & Science in Sports & Exercise* 42:30, 2010.
12. Baker KS, Kelly AS, Petryk A, Sinaiko AR, Steffen LM, Moran A, **Dengel DR**, Gujral K, Zhou X, Steinberger J. Cardiometabolic risk in survivors of childhood cancer who received hematopoietic cell transplant (HCT). *Journal of Clinical Oncology* 27:6532, 2009.
13. Mulrooney DA, Kelly AS, Baker KS, Steffen LM, Lunsford-Lee J, Petryk A, Sinaiko AR, **Dengel DR**, Perkins J, Messinger Y, Zhou X, Steinberger J. Cardiometabolic risks among survivors of childhood hematologic malignancies. *Blood* 114:4113, 2009.
14. Burns KV, Kaufman CL, Kelly AS, Parah JS, **Dengel DR**, Bank AJ. Impaired Rotational Function in Patients Chronically Paced from the Right Ventricle. *Heart Rhythm* 6(5):S125, 2009.
15. Baker KS, Steffen LM, Zhou X, Kelly AS, Lee J, Petryk A, Sinaiko AR, **Dengel DR**, Mulrooney DA, Steinberger J. Total body irradiation increases cardiometabolic risk and induces carotid vascular stiffness in survivors after hematopoietic cell transplant for childhood hematologic malignancies. *Blood* 114:3329, 2009.
16. Bishop LA, Steffen LM, Tsai A, Hanson N, Baker KS, **Dengel DR**, Kelly AS, Sinaiko AR, Petryk A, Moran A, Perkins JL, Lunsford-Lee J, Steinberger J. The C677T methylenetetrahydrofolate

- reductase polymorphism and insulin resistance in childhood cancer survivors. *Blood* 114:1400, 2009.
17. **Dengel DR**: Scope of Possibilities in Clinical Physiology. *Medicine & Science in Sports & Exercise* 40:71, 2008.
 18. Templeton DL, Kelly AS, Steinberger J, **Dengel DR**: Bone Mineral Content in Overweight and Normal Weight Children. *Medicine & Science in Sports & Exercise* 40:S313, 2008.
 19. Nelson MT, Biltz G, Winsley R, Armstrong N, Fawkner S, Bywater K, **Dengel DR**: Reliability of Heart Rate Variability by Sample Entropy at Rest and During Light Exercise in Children. *Medicine & Science in Sports & Exercise* 40:S282, 2008.
 20. Templeton DL, **Dengel DR**, Steffen L, Steinberger J, Moran A, Jacobs DR, Sinaiko AR: Effects of Adolescent Obesity And Physical Inactivity On Vascular Structure And Function In Young Adulthood. *Acta Kinesiologiae Univeritatis Tartuensis* 12(supplement):187-188, 2007.
 21. Biltz GR, Unnithan VB, Harmon JH, Witten G, **Dengel DR**: RER Variability Analysis By Sample Entropy: A Preliminary Comparison of Obese And Lean Children. *Acta Kinesiologiae Univeritatis Tartuensis* 12(supplement): 53-54, 2007.
 22. Alexander NB, Nyquist L, Moore T, **Dengel D**, Gretebeck K, Blaum C. Submaximal Oxygen Uptake Measures Predict Function In Older Adult Diabetics. *Gerontologist* 47:407, 2007.
 23. **Dengel DR**, Kaufman CL, Kaiser DR, Dengel JL, Steinberger J: Diet alone does not improve endothelial function in overweight children. *Circulation* 115(8):54, February 27, 2007.
 24. Huck CJ, **Dengel DR**, Duprez DA: Comparison of Non-Invasive Modalities of Vascular Function. *Medicine & Science in Sports & Exercise* 38:S186, 2006.
 25. Olson TP, Schmitz KH, Leon AS, **Dengel DR**: Resistance Training Mediated Improvement of Inflammatory Biomarkers in Overweight Eumenorrhic Women. *Medicine & Science in Sports & Exercise*: 38:S288, 2006.
 26. Blaum C, Nyquist L, Moore T, **Dengel D**, Alexander NB: Prefrail Status is Associated With Objective Measures of Poor Endurance in Generally Healthy Older Adults. *Gerontologist* 46:32, 2006.
 27. Kaufman CL, Witten G, Kaiser DR, **Dengel DR**. Overweight Children Lack Heart Period Complexity at Rest And After Acute Nitroglycerin Administration. *Circulation* 114(18):696, 2006.
 28. **Dengel DR**, Kelly AS, Olson TP, Steinberger J, Kaiser DR, Bank AJ. Proinflammatory Markers Are Not Altered With Exercise Training Despite Enhanced Endothelial Function in Overweight Children. *Pediatric Exercise Science* 18:134-135, 2006.
 29. Reynolds TH, Supiano MA, **Dengel DR**: Regional Specific Changes in Glucose Clearance Following Resistance Training in Older Hypertensive Individuals. *Medicine & Science in Sports & Exercise* 38:S17, 2006.
 30. **Dengel DR**, Kelly AS, Steinberger J, Sinaiko AR: Effect Of Acute Hyperglycemia On Endothelial Function In Normal And Overweight Children. *Medicine & Science in Sports & Exercise* 37:S156, 2005.

31. Kelly AS, Steinberger J, Kaiser DR, Olson TP, Bank AJ, **Dengel DR**. Adverse Adipokine Profile And Increased Oxidative Stress Characterize Obesity And The Metabolic Syndrome In Children. *Circulation* 112(17) Supplement II:II-839, 2005.
32. Olson TP, Schmitz KH, Leon AS, **Dengel DR**: Obese Women Exhibit Greater Endothelial Dysfunction Than Overweight Counterparts. *Medicine & Science in Sports & Exercise* 37:S156, 2005.
33. Olson TP, Schlick LM, **Dengel DR**: Assessment of Cerebral Blood Flow Velocity by Transcranial Doppler Ultrasound During Maximal Bicycle Ergometry. *Medicine & Science in Sports & Exercise* 36:S22, 2004.
34. Olson TP, Kelly AS, Bank AJ, Kaiser DR, **Dengel DR**. Six Months of Weight Loss Improves Metabolic and Vascular Indices In Overweight Adults. *Journal of the American College of Cardiology* 43(5) Supplement A:525A-526A, 2004.
35. Kelly AS, Wetzsteon RJ, Kaiser DR, Steinberger J, Bank AJ, **Dengel DR**. Exercise Training Improves Endothelial Function in Overweight Children. *Circulation* 109(6):79, 2004 (online).
36. Kelly AS, Wetzsteon RJ, Kaiser DR, Steinberger J, Bank AJ, **Dengel, DR**. Independent Relationship Between C-Reactive Protein and Markers of Insulin Resistance in Overweight and Obese Children. *Journal of the American College of Cardiology* 43(5) Supplement A:488A, 2004 (online).
37. **Dengel DR**, Kelly AS, Wetzsteon RJ, Steinberger J, Sinaiko AR: Effects of Oral Glucose Loading on Endothelial Function in Overweight Children. *Circulation* 109(6):80, 2004.
38. Harney RG, Johnson R, **Dengel DR**, Durfee W, Serfass R: Reproducibility of A Blocking Ergometer for Measuring Power Output and Response Time. *Medicine & Science in Sports & Exercise* 35:S97, 2003.
39. Parker ED, Schmitz KH, Jacobs DJ, **Dengel DR**, Schreiner PJ: Physical Activity and Incident Hypertension: the Cardia Study. *Medicine & Science in Sports & Exercise* 35:S73, 2003.
40. Reynolds TH, Reid P, Larkin LM, Lawrence JC, **Dengel DR**: The Effects of Aging and Exercise Training on the Mammalian Target of Rapamycin Signaling Pathway. *Medicine & Science in Sports & Exercise* 35:S344, 2003.
41. Olson TP, Tracy JE, **Dengel DR**: Validity of A Low-Flow Pneumotach and Portable Metabolic System for Measurement of Basal Metabolic Rate. *Medicine & Science in Sports & Exercise* 35:S143, 2003.
42. **Dengel DR**, Brown MD, Ferrell RE, Reynolds TH, Supiano MA: Renal Hemodynamic and Blood Pressure Response to Dietary Sodium Is Associated With the Enos Gene. *Medicine & Science in Sports & Exercise* 35:S18, 2003.
43. **Dengel DR**, Brown MD, Ferrell RE, Reynolds TH, Supiano, MA: Exercise-Induced Improvements in Insulin Sensitivity Are Associated With Ace Gene Polymorphisms. *Medicine & Science in Sports & Exercise* 34:S13, 2002.
44. Byard AD, **Dengel DR**: Validity of A Portable Metabolic Measurement System. *Medicine & Science in Sports & Exercise* 34:S149, 2002.

45. Harney RG, Byard, AD, **Dengel DR**, Durfee W, Serfass R: Blocking Performance Is Related to Body Composition and Vertical Jump in Collegiate Football Players. *Medicine & Science in Sports & Exercise* 34:S19, 2002.
46. **Dengel DR**, Cleland RJ, Krajewski KM, Parkinson JE, Alexander NB: Importance of Submaximal Oxygen Kinetics in Performing Tasks of Daily Living in Older Adults. *Medicine & Science in Sports & Exercise* 33:S259, 2001.
47. Reynolds TH, Supiano MA, Brown MD, **Dengel DR**: Aerobic Exercise Training Improves Insulin Sensitivity and Blood Pressure Independent of Plasma Tnf-Alpha Levels in Older Hypertensives. *Medicine & Science in Sports & Exercise* 33:S3, 2001.
48. Reynolds TH, Krajewski KM, Larkin LM, Reid PA, Supiano MA, Halter JB, **Dengel DR**: Increased Protein Degradation Rate With Aging in Extensor Digitorum Longus Muscle From Mice: Potential Role in Age-Related Muscle Atrophy. *The FASEB Journal* 14:A48, 2000.
49. Brown M, Park JJ, Ferrell R, Hogikyan RV, **Dengel DR**, Supiano MA: The Role of ACE and eNOS Gene Polymorphisms on Blood Pressure Sensitivity to Sodium in Older Hypertensives. *The FASEB Journal* 14:A57, 2000.
50. **Dengel D**, Brown M, Cleland R, Hogikyan R, Supiano M: Role of the Renin-Angiotensin-Aldosterone System in Sodium Sensitivity in Older Hypertensives. *The FASEB Journal* 14:A369, 2000.
51. **Dengel DR**, Glickman SG, Supiano MA, Chang KS, Cleland RJ, Marn CS, Galecki AT: Ability of Dual-Energy X-Ray Absorptiometry to Measure Abdominal Fat. *Medicine & Science in Sports & Exercise* 32(5):279, 2000.
52. Reynolds TH, Krajewski KM, **Dengel DR**, Supiano MA, Halter JB: Protein Turnover in Aging Skeletal Muscle: Potential Role of Protein Degradation. *The FASEB Journal* 13:A412, 1999.
53. Feely RS, **Dengel DR**, Larkin LM, Halter JB: Chemical vs. DEXA Analysis for Detecting Age-Associated Body Compositional Changes in Male Rats. *The FASEB Journal* 13:A262, 1999.
54. **Dengel DR**, Hagberg JM, Pratley RE, Goldberg AP: Insulin Sensitivity Is Related to Maximal Aerobic Capacity and Obesity in Older Men. *Medicine & Science in Sports & Exercise* 31:S210, 1999.
55. **Dengel DR**, Brown MD, Cleland RJ, Hogikyan RV, Supiano MA: Aerobic Exercise Training Does Not Impair Kidney Function or Sodium Handling in Older Hypertensive Individuals. *Journal of Investigative Medicine* 47(7):255A, 1999.
56. Cleland RJ, Brown MD, **Dengel DR**, Supiano MA: Dietary Sodium Induced Increase in Renal Function is Associated With an Increase in Nitrite Levels. *Medicine & Science in Sports & Exercise* 30(5):348, 1998.
57. **Dengel DR**, Brown MD, Hogikyan RV, Supiano MA: Improvement in Renal Function in Older Hypertensives is Associated With Increase in Maximal Aerobic Capacity. *Medicine & Science in Sports & Exercise* 30(5):906, 1998.
58. Wozniak AR, Glickman SG, **Dengel DR**, Brown MD, Hogikyan RV, Supiano MA: Central Adiposity Assessed by DEXA Provides a Gender-Independent Predictor of Insulin Sensitivity in Older Hypertensives. *Journal of the American Geriatric Society* 46(9):A33, 1998.

59. Dengel JL, Galecki A, **Dengel DR**: Comparison of the 1979 and 1997 American Diabetes Association Systems for Diagnosis of Diabetes Mellitus. *Medicine & Science in Sports & Exercise* 30:196, 1998.
60. **Dengel DR**, Houmard JA, Kirwan JP, Kohrt WM, DeSouza CA: Role of Exercise As A Non-Pharmacological Therapy and in Preventing Diseases Associated With Aging. *Medicine & Science in Sports & Exercise* 30:225, 1998.
61. Brown MD, Srinivasan M, Hogikyan, RV, **Dengel DR**, Glickman SG, Galecki A, Supiano MA: Nitric Oxide Biomarkers Increase During Exercise-Induced Vasodilation in the Forearm. *Medicine & Science in Sports & Exercise* 30:212, 1998.
62. **Dengel DR**, Brown MD, Hogikyan RV, Supiano MA: Improvement in Renal Function in Older Hypertensives is Associated With Increase in Maximal Aerobic Capacity. *Medicine & Science in Sports & Exercise* 30:160, 1998.
63. Brown MD, Hogikyan RV, **Dengel DR**, Supiano MA: Relationship Between Blood Pressure and Sympathetic Nervous System Activity Following Exercise Training in Older Hypertensives. *Journal of the American Geriatric Society* 46(9):P360, 1998.
64. Brown MD, **Dengel DR**, Hogikyan RV, Supiano MA: Salt-Resistant Hypertension is Associated with Higher Sympathetic Nervous System Activity. *Journal of Investigative Medicine* 45(3):281A, 1997.
65. Brown MD, **Dengel DR**, Hogikyan RV, Supiano MA: Exercise Training in Older Hypertensives is Associated with Reduced Sympathetic Nervous System Activity. *Journal of Investigative Medicine* 45(7):326A, 1997.
66. Glickman SG, **Dengel DR**, Brown MD, Hogikyan RV, Supiano MA: Abdominal Obesity Determined by Dual Energy X-Ray Absorptiometry is Associated with Insulin Sensitivity. *Journal of Investigative Medicine* 45(7):343A, 1997.
67. Brown MD, **Dengel DR**, Hogikyan RV, Supiano MA: Nitric Oxide Biomarkers are Associated With the Blood Pressure Lowering Effect of Dietary Sodium Restriction in Older Hypertensives. *Circulation* 96(8):I539-I540, 1997.
68. DeSouza CA, **Dengel DR**, Rogers MA, Cox K, Macko RF: The Fibrinolytic System is Not Impaired in Older Hypertensive Men. *The FASEB Journal* 10(3):240, 1996.
69. **Dengel DR**, Supiano MA, Hogikyan RV, Brown MD, Weir MR: Differential Effect of Dietary Salt Intake on Insulin Sensitivity in Salt-Sensitive and -Resistant Older, Hypertensive Humans. *Journal of Investigative Medicine* 44(3):336A, 1996.
70. Weir MR, **Dengel DR**, Mayuga RS, Kairis GM, Goldberg AP: Insulin Resistance Not Dietary Salt Correlates With Elevated Glomerular Filtration Fraction in Middle-Aged, Obese Sedentary Hypertensives. *American Journal of Hypertension* 9(4):130A, 1996.
71. **Dengel DR**, Hogikyan RV, Brown MD, Glickman SG, Supiano MA: Dietary Salt Restriction Does Not Improve Insulin Sensitivity in Older Hypertensive Humans Regardless of Salt-Sensitivity Status. *Journal of Investigative Medicine* 44(7):370A, 1996.
72. Glickman SG, **Dengel DR**, Brown MD, Supiano MA, Hogikyan RV: Salt-Induced Changes in

Glomerular Filtration Fraction Predict Changes in Insulin Sensitivity in Elderly Hypertensives. *The Physiologist* 39(5):A-90, 1996.

73. Macko RF, DeSouza CA, Silver KH, Smith GV, Anderson PA, **Dengel DR**: Treadmill Endurance Training Reduces Energy Requirements of Hemiparetic Stroke Patients. *The Gerontologist* 36:222, 1996.
74. **Dengel DR**, Hogikyan RV, Brown MD, Glickman SG, Supiano MA: Dietary Salt Intake Has No Effect on Insulin Sensitivity in Hypertensives Regardless of Salt-Sensitivity Status. *Medicine & Science in Sports & Exercise* 29:19, 1997.
75. DeSouza CA, **Dengel DR**, Rogers MA, Cox K, Macko RF: Impaired Fibrinolysis Is Not A Trigger for Activity Related Thrombotic Events in Older Hypertensive Men. *Medicine & Science in Sports & Exercise* 28:83, 1996.
76. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Distinct Effects of Aerobic Exercise Training and Weight Loss on Glucose Homeostasis in Obese Sedentary. *Medicine & Science in Sports & Exercise*. 28:80, 1996.
77. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Differentiating the Effects of Exercise and Weight Loss on Glucose Metabolism. *Medicine & Science in Sports & Exercise* 27:S49, 1995.
78. Weir MR, **Dengel DR**, Mayuga R, Goldberg AP: Insulin Resistance, Elevated Glomerular Filtration Fraction and Renal Injury. *Hypertension* 25(3):16, 1995.
79. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Aerobic Exercise and Weight Loss Ameliorate Coronary Artery Disease Risk Factors Associated With the Insulin Resistance Syndrome (Syndrome X). *Clinical Research* 42(2):216A, 1994.
80. Pratley RE, **Dengel DR**, Hagberg JM, Goldberg AP: Insulin Resistance, Hyperinsulinemia, and Increased Sympathetic Nervous System Activity Associated With Hypertension Improve With Diet and Exercise. *Diabetes* 43:143, 1994.
81. Goldberg AP, Katzel LI, **Dengel DR**, Rogus EM: Exercise, Weight Loss and Metabolic Dysfunction in Obese Older Men. *The Gerontologist* 34:176A, 1994.
82. Koya I, Doyle B, **Dengel D**, Weir M: Influence of Donor Kidney Race on Post-Transplantation Blood Pressure and Renal Function. *Journal of The American Society of Nephrology* 5:1019, 1994.
83. **Dengel DR**, Pratley RE, Goldberg AP, Hagberg JM: Effect of Aerobic Exercise and Weight Loss on "Syndrome X". *Medicine & Science in Sports & Exercise* 26:S135, 1994.
84. Brown MD, Taylor-Tolbert N, McCole SD, **Dengel DR**, Hagberg JM: Ambulatory Systolic Blood Pressure Is Reduced Following A Single Bout of Exercise. *Medicine & Science in Sports & Exercise* 26:S16, 1994.
85. Conley DS, Cureton KJ, Weyand PG, **Dengel DR**, Higbie EJ, Prior BM, Sloniger MA: Prediction of Peak Aerobic Power From 12-Minute Swim Performance in Recreational and Competitive Swimmers. *Medicine & Science in Sports & Exercise* 26:S54, 1994.

86. **Dengel DR**, Pratley RE, Goldberg AP, Hagberg JM: VO_{2max} and Body Composition Are Not Exclusively Responsible for the Insulin Resistance in Older Hypertensives. *Medicine & Science in Sports & Exercise* 25:S142, 1993.
87. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: Insulin Deficiency and Abdominal Obesity, Not Increased Insulin Resistance are Associated With NIDDM and Glucose Intolerance. *Diabetes* 42:134, 1993.
88. Pratley R, **Dengel D**, Hagberg J, Roadarmel K, Goldberg A: Dose-Response Between Insulin and Plasma Norepinephrine Appearance in Man. *Diabetes* 42:790, 1993.
89. **Dengel DR**, Hagberg JM, Drinkwater DT, Lakatta LE, Goldberg AP: Weight Loss by Exercised and Diet Decreases Fat-Free Mass Similarly in Older Obese Men. *Medicine & Science in Sports & Exercise* 24:433, 1992.
90. **Dengel DR**, Pratley RE, Hagberg JM, Goldberg AP: The Insulin Resistance/Hypertension Link in Older Obese Sedentary Men. *The Gerontologist* 32:71A, 1992.
91. **Dengel D**, Weyand P, Black D, Cureton K: Effect of Dehydration on Ratings of Perceived Exertion. *Medicine & Science in Sports & Exercise* 23:406, 1991.
92. Norton K, Delp M, Jonas M, Duan C, **Dengel D**, Armstrongs R: Distribution of Blood Flow During Exercise Following Blood Volume Expansion in Swine. *Medicine & Science in Sports & Exercise* 22:S102, 1990.
93. Conley DS, Cureton KJ, **Dengel DR**, Weyand, P: Metabolic Determinants of 12-Minute Swim Performance. *Medicine & Science in Sports & Exercise* 22:S14, 1990.
94. **Dengel DR**, Norton KI, Armstrong RB: Arterial pressure and plasma volume loss during exercise in swine. *International Journal of Sports Medicine* 11:405, 1990.
95. Norton KI, Jones MT, **Dengel DR**, Armstrong RB: Distribution of Muscle Blood Flow in Rats During Laddermill Climbing. *International Journal of Sports Medicine* 10:145-146, 1989.
96. **Dengel DR**, Graham RE, Jones MT, Norton KI, Forbus WR, Yorio JM: Prediction of VO_2 using a bicycle wind-load simulator. *International Journal of Sports Medicine* 10:146, 1989.
97. Cureton KJ, Warren G, Gilliam J, **Dengel D**, Graham R, Ray C: Ratings of Perceived Exertion, Hyperventilation and Blood Lactate During Arm and Leg Exercise. *Medicine & Science in Sports & Exercise* 21:S5, 1989.
98. **Dengel DR**, George TW, Richards JG, Kearney JT: Importance of Upper Body Strength in Lugers. *Medicine & Science in Sports & Exercise* 21:S6, 1989.
99. Jones MT, Norton KI, **Dengel DR**, Armstrong RB: Exercise Blood Flow Distribution in Trained Pregnant Rats. *Medicine & Science in Sports* 21:S31, 1989.
100. Lewis RD, Dengel DR, Jones MT, Norton KI, Johnson MA: The Effects of Training on Mineral Status in Pregnant Rats. *Medicine & Science in Sports* 21:S3, 1989.
101. Kearney JT, **Dengel DR**, Conkel BS: Seasonal Variation in Physiological Characteristics of the World Championship Team Olympic-Style Paddling. *Medicine & Science in Sports & Exercise* 20:487, 1988.

102. Warren G, Cureton K, Wyllie J, **Dengel D**, Graham R, Ray C: Is the Sex Difference in Peak VO₂ Greater For Arm Exercise Than Leg Exercise? *Medicine and Science in Sports & Exercise* 20:104, 1988.
103. **Dengel DR**, George TW, Bainbridge C, Pleck SJ, Van Handel PJ, Kearney JT: Training Responses in National Team Boxers. *Medicine & Science in Sports & Exercise* 19:S47, 1987.
104. **Dengel DR**, Flynn MG, Costill DL, Kirwan JP, Beltz JD, Neuffer PD: Metabolic Determinants of Success During Triathlon Competition. *Medicine & Science in Sports & Exercise* 18:S87, 1986.

Websites

1. <http://www.cehd.umn.edu/kin/research/hptl/> (Human Performance Teaching Laboratory)
2. <http://www.cehd.umn.edu/kin/research/lihp/> (Laboratory of Integrative Human Physiology)

Other Key Activities and Accomplishments

1. "Dual-energy X-ray Absorptiometry (DXA) Cross-Calibration Phantom." *Device used to calibrate multiple DXA devices for use in clinical research studies.* (2011)
2. US Patent #6,743,587 "ACE Genotype Which Correlates with Improved Success in Sodium Excretion in Hypertensives and Exercise." *Patent on the use of the ACE genotype to determine changes in sodium sensitivity due to exercise training in hypertensives.* (2004)

TEACHING AND CURRICULUM DEVELOPMENT

University of Minnesota

Courses Taught

- | | |
|--------------|---|
| 2012-2013 | KIN 1905 – Freshman Seminar: The Impact of 1908, 1948 & 2012 Olympics on London |
| 2011-2013 | KIN 4520 - The Impact of 1908, 1948 & 2012 Olympics on London |
| 2002-present | KIN 4385 - Exercise Physiology |
| 2010-present | KIN 5585 - Pediatric Physiology and Health: Concepts and Applications |
| 2009 | KIN 5720 - Exercise In The Prevention Of Metabolic Disease |
| 2005 | KIN 5435 - Advanced Theory and Techniques of Exercise Science |
| 2004 | KIN 5720 - Exercise In The Prevention Of Metabolic Disease |
| 2003-2004 | KIN 3385 - Human Physiology |
| 2002-2004 | KIN 5485 - Advanced Electrocardiogram, Graded Exercise Testing and Prescription |
| 2002-2004 | KIN 8122 - Graduate Exercise Physiology Seminar |

2001-2002 KIN 5122 - Applied Exercise Physiology

Invited Course Lectures

- “Exercise Testing in Children and Adolescents,” KIN 5585 Pediatric Physiology and Health: Concepts and Applications, University of Minnesota, Minneapolis, Minnesota, October 29, 2015
- “Oxygen Uptake Kinetics,” PsTL 1135-Essentials of Human Anatomy and Physiology, University of Minnesota, Minneapolis, Minnesota, September 20, 2014
- “Research Methodology in Clinical Physiology,” CPMS 5101-Introduction to Clinical Physiology and Movement Science, University of Minnesota, Minneapolis, Minnesota, September 29, 2014
- “Exercise Testing in Children and Adolescents,” KIN 5585 Pediatric Physiology and Health: Concepts and Applications, University of Minnesota, Minneapolis, Minnesota, March 31, 2014
- “Research Methodology in Clinical Physiology,” CPMS 5101-Introduction to Clinical Physiology and Movement Science, University of Minnesota, Minneapolis, Minnesota, September 30, 2013
- “The Effects of Obesity on Vascular Function: From Peripheral to Cerebral,” NUTR 8620-Special Topics in Nutrition, University of Minnesota, Minneapolis, Minnesota, February 4, 2013
- “Research Methodology in Clinical Physiology,” CPMS 5101-Introduction to Clinical Physiology and Movement Science, University of Minnesota, Minneapolis, Minnesota, October 1, 2012
- “Research Methodology in Clinical Physiology,” CPMS 5101-Introduction to Clinical Physiology and Movement Science, University of Minnesota, Minneapolis, Minnesota, September 26, 2011
- “Vascular Health in Adolescents,” PSTL 1135-College in the Schools: Essentials of Human Anatomy and Physiology, University of Minnesota, Minneapolis, Minnesota, November 17, 2010
- “Measuring Energy Balance,” PubH 6360-Obesity & Eating Disorders: Etiology & Epidemiology, University of Minnesota, Minneapolis, Minnesota, October 22, 2009
- “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 Institutet, 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 Institutet, 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

Curriculum Development

CEHD 3100 - The Impact of 1908, 1948 & 2012 Olympics on London, International Study Abroad course for undergraduate students from the University of Minnesota, London, England

KIN 1905 – Freshman Seminar: The Impact of 1908, 1948 & 2012 Olympics on London, Course for University of Minnesota Freshman students, University of Minnesota, Minneapolis, Minnesota

KIN 4520 - The Impact of 1908, 1948 & 2012 Olympics on London, International Study Abroad course for undergraduate students from the University of Minnesota, London, England

KIN 5435 - Advanced Theory and Techniques of Exercise Science, Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota

KIN 5485 - Advanced Electrocardiogram, Graded Exercise Testing and Prescription, Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota

KIN 5585 - Pediatric Physiology and Health: Concepts and Applications, Graduate course for Kinesiology graduate students, University of Minnesota, Minneapolis, Minnesota

KIN 5720 - Exercise in the Prevention of Metabolic Disease, International Study Abroad course for graduate and undergraduate students from the University of Minnesota, University of Michigan, Eastern Carolina University and the Karolinska Institutet, Stockholm, Sweden

KIN 5987-Professional Skills and Grant Writing for Health Sciences, Graduate course for Kinesiology

graduate students, University of Minnesota, Minneapolis, Minnesota

Laboratory Experiences in Exercise Physiology (eight edition),” A Laboratory Manual for KIN 4385 Exercise Physiology, University of Minnesota, Minneapolis, Minnesota.

Collaborative Efforts and Activities

Human Performance Teaching Laboratory, developed with Dr. Juergen Konczak in the School of Kinesiology, University of Minnesota, the Human Performance Teaching Laboratory is a teaching laboratory used to teach all laboratory sections of Kinesiology Science course. The Human Performance Teaching Laboratory teaches over 300 students per week.

Vikings Project, developed with Dr. Aaron Kelly in the Department of Pediatrics, School of Medicine, University of Minnesota. The Vikings Project combines a class (i.e., KIN 5585 - Pediatric Physiology and Health: Concepts and Applications) with a real life experience. Graduates of KIN 5585 work with overweight children, who come to the University of Minnesota with their parent to learn to be more physical active, change dietary habits and lose weight.

Facility Development Activities

“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

University of Michigan

Courses Taught

- | | |
|-----------|--|
| 1999-2000 | Human Growth and Development, Course for First Year Medical Students, Section Lecturer |
| 1995-2000 | Cardiovascular Sequence, Course for 2nd Year Medical Students, Section Lecturer |
| 1997-1998 | Statistics and Scientific Literacy in Movement Science |

Curriculum Development

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

Facility Development Activities

“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

University of Maryland

Courses Taught

- | | |
|-----------|---|
| 1994-1995 | Human Physiology, Graduate course for Department of Physical Therapy, School of Medicine, University of Maryland, Baltimore, Maryland |
|-----------|---|

1994-1995 Medical Physiology, Section Lecturer, Acute Cardiorespiratory and Metabolic
Effects of Exercise, Department of Physiology, School of Medicine

University of Georgia

Courses Taught

1987-1989 Exercise Physiology Laboratory

ADVISING AND MENTORING

University of Minnesota

Undergraduate Student Activities

Undergraduate Research Opportunities Program (UROP)

Rebecca Gusmer, B.S. University of Minnesota, Minneapolis, MN. UROP Topic – “Validation of the FitBit for Physical Activity Quantification.” (2011-2012)

Xiaoying Lou, B.S. University of Minnesota, Minneapolis, MN. UROP Topic - “Effects of Continuous Flow Left Ventricular Assist Device Support on Microvascular Endothelial Function.” (2010-2011)

Jordan Hinz, B.S. University of Minnesota, Minneapolis, MN. UROP Topic – “Effects of Cooked and Uncooked Beef and Soybean Oil on Vascular Function.” (2009-2010)

Chris Reiff, B.S. University of Minnesota, Minneapolis, MN. UROP Topic – “Difference in Caloric Expenditure in Sitting Versus Standing Desks.” (2008-2009)

Directed Research

Jacob Leeling, B.S. University of Minnesota, Minneapolis, MN, Research Project -“Reliability of DXA For The Measurement of Bone Width Measures” (2014)

Hannah McMahon, B.S. University of Minnesota, Minneapolis, MN, Research Project -“London, Paris and Rome Summer Olympics.” (2012)

Rebecca Gusmer, B.S. University of Minnesota, Minneapolis, MN. Research Project -“Iron Levels and Track Performance.” (2012)

Andrew Fink, B.S. University of Minnesota, Minneapolis, MN. Research Project - “Alterations in PCO₂ Levels and Cerebral Vascular Reactivity.” (2012)

Ashley Watkins, B.S. University of Minnesota, Minneapolis, MN, Research Project – “Wrist Circumference and the Metabolic Syndrome in Children” (2011)

Nicholas Evanoff, B.S. University of Minnesota, Minneapolis, MN, Research Project -“Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2011)

Megan Gaulke, B.S. University of Minnesota, Minneapolis, MN, Research Project -“Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2010-2011)

Rebecca Gusmer, B.S. University of Minnesota, Minneapolis, MN, Research Project -“Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2011)

Christina Hirsch, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Kayle Kehert, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Brian McMahon, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Erin Ostrowski, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2010-2011)

Jonathan Rief, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Vicki Vangh, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Barry Weintraub, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Timothy Wheeler, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Jordan Yseth, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2011)

Alisha Baker, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2010)

Michael Fose, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2010)

Lauren Gibbemeyer, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2010)

Andrew Lange, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth." (2010)

Paige Pettit, B.S. University of Minnesota, Minneapolis, MN, Research Project - "Vikings Fitness

Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2010)

Courtney Veerman, B.S. University of Minnesota, Minneapolis, MN, Research Project - “Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2010)

Jennifer Vlasak, B.S. University of Minnesota, Minneapolis, MN, Research Project - “Vikings Fitness Playbook: A Family-Based Lifestyle Modification Program for Overweight and Obese Youth.” (2010)

Chris Reiff, B.S. University of Minnesota, Minneapolis, MN. Research Project – “Transcranial Blood Flow During Standing.” (2008)

Jordan Hinz, B.S. University of Minnesota, Minneapolis, MN. Research Project “Changes in Transcranial Doppler Measures of Blood Flow During Activity.” (2007)

Kyleen Puffer, B.S. University of Minnesota, Minneapolis, MN, Research Project – “Effects of Exercise on Oxygen Uptake in Children.” (2003)

Graduate Student Activities

Master’s Theses Directed

Christiana Raymond, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “A Novel Method for Assessing Leg Compartmental Body Composition Using Dual Energy X-ray Absorptiometry (2014-2016)

Hanan Zavala, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “Role of Gender, Age, and Adiposity on Endothelium-Independent Dilation in Children and Adolescents” (2013-2015)

Ashley Watkins, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “Arterial Compliance and Distensibility: A Comparison of Three Measurement Sites” (2013-2015)

Nicholas Evanoff, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “Peak Shear and Peak Flow Mediation Dilation: A Time Course Relationship” (2012-2014)

Natalie Taylor, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “Isokinetic Muscle Strength Differences in Patients with Mucopolysaccharidosis I, II, and VI” (2011-2013)

Joseph Ostrem, M.S., University of Minnesota, Minneapolis, MN. Thesis topic – “Comparison of Baseline Brachial Artery Measurements and Effect on Peak Flow-Mediated Dilation.” (2011-2013)

Meghan McCue, M.S., University of Minnesota, Minneapolis, MN. Thesis Topic – “Evaluation of Gender Differences in Endothelium-Independent Dilation in Healthy Adults Using Peripheral Arterial Tonometry.” (2010-2012)

Ryan Gage, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Cardiac Resynchronization Therapy in Narrow QRS Heart Failure Patients” (2010-2011)

Kara Marlatt, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Endothelium-Independent Dilation in Children and Adolescents” (2010-2011)

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

Tyler Bosch, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Measurement of Cardiovascular Autonomic Function by Tilt Table and Nitroglycerin Administration.” (2005-2007)

Carrie Scott, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Resistance Training in Overweight or Obese Women to Increase Resting Metabolic Rate.” (2002-2005)

Corey Huck, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Comparison of Non-Invasive Modalities of Vascular Function.” (2003-2005)

Jennifer Tracy, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Relationship Between Body Composition and Resting Metabolic Rate in Young and Middle-Aged Women.” (2001-2005)

Jennifer Teske, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Effect of Dietary Sucrose on Uncoupling Protein Gene Expression.” (2001-2003)

Andrew Byard, M.A., University of Minnesota, Minneapolis, MN. Thesis topic – “Validation of a Portable Metabolic Measurement System.” (2000-2002)

Master’s Student Advises

Andrea Krueger, M.S., Candidate, University of Minnesota, Minneapolis, MN. (2014-present)

Neil Hultgren, M.S., Candidate, University of Minnesota, Minneapolis, MN. (2015-present)

Katie Bisch, M.S., Candidate, University of Minnesota, Minneapolis, MN. (2016-present)

Bryce Murphy, M.S., Candidate, University of Minnesota, Minneapolis, MN. (2016-present)

Master’s Committees Served On

Alexander Kasak, M.S. Thesis, University of Minnesota, Minneapolis, MN. Thesis topic – “Estimates Of Central Hemodynamics Using Gas Exchange In Patients With Cystic Fibrosis” (2013-2016)

Alexander Bisch, M.S. Thesis, University of Minnesota, Minneapolis, MN. Thesis topic – “Cystic Fibrosis Transmembrane Conductance Regulator Genotype Influences Cardiac Function in Cystic Fibrosis.” (2013-2015)

Allise Taran, M.P.H. Thesis, University of Minnesota, Minneapolis, MN. Thesis topic – “Relationships Between Adolescent Physical Activity and Parent- and Adolescent-Reported Social Support: The ECHO and TREC-IDEA Studies.” (2010-2015)

Kara Marlatt, M.P.H. Thesis, University of Minnesota, Minneapolis, MN. Thesis topic – “Investigating Sex-Specific Percent Body Fat Cut-Points For Increased Visceral and Abdominal Subcutaneous Adipose Tissue Accrual In Adults.” (2012-2015)

Monika Sattler, M.S. Thesis, University of Minnesota, Minneapolis, MN. Thesis topic – “Is There a Relationship Between Change in Disease Severity and Change in Gas Exchange During a Six-Minute Walk Test in Patients With Idiopathic Pulmonary Arterial Hypertension?” (2012-2014)

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

Lillian 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)

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)

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)

Doctoral Dissertation Directed

Joseph Ostrem, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. Dissertation topic – “Brachial Artery Response To Reactive Hyperemia: Describing High-Flow-Mediated Constriction in Healthy Children, Adolescents and Adults, and the Intra- and Inter-day Reproducibility of High-Flow-Mediated Constriction Response in Adults.” (2012-2016)

Kara Marlatt, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Carotid Artery Elasticity: Describing Elasticity in Healthy Children and Adults, and the Use of Atorvastatin to Modulate Elasticity in Adult Survivors of Childhood Cancer.” (2011-2015)

Justin Geijer, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Cerebral and Peripheral Hemodynamic Responses to Increased End-Tidal Carbon Dioxide Volumes.” (2009-2015)

Tyler Bosch, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Quantification of Visceral Fat Using Dual Energy X-ray Absorptiometry.” (2011-2014)

Michael Nelson, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Time Series Analysis of Cardiometabolic Parameters: Reliability and Energy Drink Response.” (2007-2013)

Kevin Burns, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Left Ventricular Mechanics During Right Ventricular Pacing.” (2006-2010)

Danielle Templeton, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. Dissertation topic – “Effects of the Continuous Flow Left Ventricular Assisted Device (LVAD) on Myocardial Oxidative Stress and Vascular Function.” (2006-2010)

Christopher Kaufman, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Cardiovascular Autonomic Function in Overweight and Obese Children.” (2003-2006)

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)

Aaron Kelly, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Vascular Structure and Function in Overweight Children.” (2001-2004)

Doctoral Students Advised

Michelle Harbin, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. (2015-present)

Christiana Raymond, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. (2016-present)

Nicholas Evanoff, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. (2016-present)

Katlyn Koepp, Ph.D. Candidate, University of Minnesota, Minneapolis, MN. (2016-present)

Doctoral Committees Served On

Erik Van Iterson, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “The Role of Exercise Central Hemodynamics for the Clinical Classification of Heart Failure Patients.” (2012-2015)

Ana Freire Ribeiro, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Comparison of Tibial Geometry, Density and Strength Between Adult Female Dancers, Gymnasts and Runners.” (2006-2013)

Courtney Perry, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Eating Occasion Need States and Weight Gain Prevention in Midlife Women.” (2007-2011)

Houa Vue, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Attitudes & Needs Regarding Eating Occasions and BMI Among Midlife Women.” (2002-2008)

Steven Whicher, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “Seasonal Changes in Heart Rate in Female Collegiate Rowers.” (2002-2007)

Amy Moran, Ph.D., University of Minnesota, Minneapolis, MN. Dissertation topic – “The Effect of Ovarian Hormones on Skeletal Muscle Contractility and Myosin.” (2002-2006)

Other Mentoring Activities

Faculty Mentoring

Daheia J. Barr-Anderson, Ph.D., Assistant Professor, University of Minnesota, Minneapolis, MN. School of Kinesiology Faculty Mentoring Committee (2013-Present)

Eric Snyder, Ph.D., Assistant Professor, University of Minnesota, Minneapolis, MN. Chair, School of Kinesiology Faculty Mentoring Committee (2012-Present)

Sandra Billinger, Ph.D., Assistant Professor, University of Kansas Medical Center Research Institute. Kansas City, KS. Co-Mentor National Institute of Health K01HD067318-01A1 “Examining Vascular Regulation Following Acute Stroke” (Direct costs \$515,543) (2011-2016)

Daheia J. Barr-Anderson, Ph.D., Assistant Professor, University of Minnesota, Minneapolis, MN.
BIRCWH Award Mentoring Committee (2010-2011)

University of Michigan

Undergraduate Student Activities

Senior Thesis

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)

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)

Post-Baccalaureate Fellow

Kama Tillman, B.S. Post-Baccalaureate Fellow, University of Michigan, Ann Arbor, MI. Topic - "Hypertension and the Role of Nitric Oxide." (1996-1997)

Postdoctoral Fellow

Thomas Reynolds, Postdoctoral, Ph.D., University of Michigan School of Medicine, Research area - Protein Metabolism in Aging Muscle (1998-2000)

Michael Brown, Postdoctoral, Ph.D., University of Michigan School of Medicine, Research area - Relationship Between Dietary Sodium Intake and Sympathetic Nervous System Activity and Endothelial Function (1995-1998)

University of Maryland

Doctoral Committees Served On

Christopher DeSouza, Ph.D., University of Maryland, College Park, MD. Dissertation topic - "Effects of Acute Exercise on Fibrinolytic Variables in Older Hypertensives." (1993-1995)

SERVICE AND PUBLIC OUTREACH

Service To The Discipline/Profession

Editorships/Journal Review Experience

Associate Editor, Exercise and Sports Science Reviews (2011-present)

Editorial Advisory Board Member, Sports Medicine Journal, Bentham Science Publishers LTD. (2015 -present)

Editorial Board Member, The Open Sports Medicine Journal, Bentham Science Publishers LTD. (2007-2015)

Reviewer, *American Journal of Physiology* (2000-present)

Reviewer, *Arteriosclerosis, Thrombosis, and Vascular Biology* (2008-present)

Reviewer, *Circulation* (2008-present)

Reviewer, *Hypertension* (2008-present)

Reviewer, *International Journal of Sports Medicine* (2006-present)

Reviewer, *Journal of Women's Health* (2010-present)

Reviewer, *Medicine and Science in Sports & Exercise* (1997-present)

Reviewer, *Metabolism* (1996-present)

Reviewer, *Obesity* (2004-present)

Reviewer, *Journal of Pediatrics* (2004-present)

Committee Memberships

Board of Directors Member, North American Society for Pediatric Exercise Medicine (2012-present)

Scientific Advisory Board Member, WellBalance, Asheville, North Carolina (2012-present)

Committee Member, Pediatric Exercise Data Harmonization Project, NIH Sponsored Committee, University of California-Irvine (2011-present)

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

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

Review Panels for External Funding Agencies, Foundations, etc.

Reviewer, National Institutes of Health, Small Business: Risk, Prevention and Health Behavior (ZRG1 RPHB-C (10) B) Grant Study Section (1999-present).

Ad hoc Reviewer, Swiss National Science Foundation (2010-2011)

Ad hoc Reviewer, United Kingdom Medical Research Council (2011)

Ad hoc Reviewer, Academy of Finland (2010)

Reviewer, American Heart Association, BSEP I Study Section (2004-2007)

Ad hoc Reviewer, National Institute of Diabetes and Digestive and Kidney Diseases, Special Emphasis Panel (2007)

Ad hoc Reviewer, National Science Foundation, Antarctic Biology & Medicine (2004)

Ad hoc Reviewer, National Institutes of Health/National Institute on Aging (2003)

Ad hoc Reviewer, Department of Veteran Affairs, Merit Review Study Section (1999)

Ad hoc Reviewer, National Institutes of Health, Minority Dissertation Ad Hoc Review Group (1997)

Organization of Conferences, Workshops, Panels, Symposia

*North American Society for Pediatric Exercise Medicine 2014 Meeting. This meeting is to be hosted by the University of Minnesota.

*Organizing meeting (i.e., conference venue, hotel and program) and serving Co-Chair of organizing committee

*Symposia: Clinical Exercise Physiology: Broadening the Profession. American College of Sports Medicine Annual Meeting, May 31, 2008

*Organized symposia and served as Co-Chair of symposia

*Symposia: Role of Exercise As A Non-Pharmacological Therapy and in Preventing Diseases Associated With Aging. American College of Sports Medicine Annual Meeting, Orlando Florida, June 5, 1998

*Organized symposia and served as Co-Chair of symposia

Service To The University/College Department

University of Minnesota

University-Wide Service

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

General Research Advisory Committee, University of Minnesota, Minneapolis, Minnesota (2011-2014)

*Scientific Advisory Committee, General Clinical Research Center, University of Minnesota, Minneapolis, Minnesota (2007-2009)

*Served as Chair of Committee

*General Clinical Research Center Clinical Research Exercise Coordinator Search Committee, University of Minnesota, Minneapolis, Minnesota (2007)

*Served as Chair of Committee

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

Senate Research Committee, University of Minnesota, Minneapolis, Minnesota (2006-2011)

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

Collegiate Service and Intercollegiate Service

College of Education and Human Development Collegiate Salary Equity Committee, University of Minnesota, Minneapolis, Minnesota (2014)

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

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

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 (2004)

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

Department/Unit Service

School of Kinesiology Graduate Education Committee, University of Minnesota, Minneapolis, Minnesota (2014-present)

School of Kinesiology Blue Ribbon 2020 Vision Committee, University of Minnesota, Minneapolis, Minnesota (2011-2012)

School of Kinesiology Scholarship and Student Affairs Committee, University of Minnesota, Minneapolis, Minnesota (2011-2012)

School of Kinesiology Space, Facilities, & Technology Committee, University of Minnesota, Minneapolis, Minnesota (2011-2013)

School of Kinesiology Faculty Position in Exercise Physiology Search Committee, University of Minnesota, Minneapolis, Minnesota (2011-2012)

*School of Kinesiology Faculty Position in Exercise Physiology Search Committee, University of Minnesota, Minneapolis, Minnesota (2010-2011)

*Served as Co-Chair of Committee

School of Kinesiology Director Search Committee, University of Minnesota, Minneapolis, Minnesota (2010-2011)

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

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

University of Michigan

University-Wide Service

The University of Michigan Medical Center, General Clinical Research Center Operating Subcommittee, Ann Arbor, Michigan (1997)

University of Michigan General Clinical Research Center Mock Site Visit, Ann Arbor, Michigan (2000)

University of Maryland

University-Wide Service

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

Ball State University

Department/Unit Service

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

Public And Other Service

Community

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (4/12/2016)*

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (4/21/2015)*

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (4/22/2014)*

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (4/16/2013)*

PSTL 1135-College in the Schools: Essentials of Human Anatomy and Physiology, School of Kinesiology Faculty Representative. *Talked with high school students about their scientific presentations and what is expected at the University of Minnesota in regards to students. (4/11/2012)*

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (4/24/2012)*

Vikings Fitness Playbook Service Day: *Talked to individuals attending Minnesota Vikings Football game about healthy living and physical activity. Handed out Vikings Fitness Playbooks and pedometers to individuals. (12/11/2011)*

Scrubs, Gloves & Microscopes - Sports Medicine. *Program for area high school students to come to Laboratory of Integrative Human Physiology and learn about careers in sports medicine and engage in sports medicine experiments. (1/15/2010)*