

# CURRICULUM VITAE

DONALD R. DENGEL, Ph.D.

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## 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

### **Licensure**

American Registry of Radiologic Technologists Limited Scope X-ray Operator 2016-Present

### **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 PCO<sub>2</sub>/PO<sub>2</sub> 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 PCO<sub>2</sub>/PO<sub>2</sub> 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. \*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* 45:35-42, 2017.
2. \*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* 5:1-5, 2017.
3. \*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.
4. Hummel SL, Herald J, Alpert C, Gretebeck KA, Champoux WS, **Dengel DR**, Vaitkevicius PV, Alexander NB: Submaximal oxygen uptake kinetics, functional mobility, and physical activity in older adults with heart failure and reduced ejection fraction. *Journal of Geriatric Cardiology* 13(5):450-457, 2016.
5. \*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.
6. 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* 79:49-54, 2016.
7. \*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.
8. \*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.
9. 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.
10. Ryder JR, **Dengel DR**, Steinberger J: Comment letter reply. *Journal of Pediatrics* 170:346-347, 2016.

11. 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.
12. 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.
13. 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.
14. 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.
15. Cirnigliaro CM, La Fontaine 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
16. \*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.
17. \*Nelson MT, Biltz GR, **Dengel DR**: Repeatability of respiratory exchange ratio time series. *Journal of Strength and Conditioning Research* 29(9):2550-2558, 2015.
18. 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.
19. \*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.
20. 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.
21. \*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.

22. \*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.
23. 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.
24. \*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.
25. \*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.
26. 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.
27. \*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.
28. Kelly AS, Rudser KD, **Dengel DR**, Kaufman CL, Reiff MI, Norris AL, Metzigg 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.
29. 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.
30. \*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.
31. \*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.
32. \*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.
33. Wang RY, Braunlin EA, Rudser KD, **Dengel DR**, Metzigg 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.
34. 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.

35. **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.
36. **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.
37. \*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.
38. 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.
39. \*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.
40. \*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.
41. \*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.
42. \*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.
43. \*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.
44. 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.
45. \*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.
46. \*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.
47. 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.

48. \*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.
49. \*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.
50. 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.
51. **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.
52. 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.
53. \*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.
54. 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.
55. **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.
56. **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
57. \*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.
58. **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
59. \*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.
60. \*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.

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*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 XXVII<sup>th</sup> 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. **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).
2. **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).
3. \*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).
4. \*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).
5. 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 press).
6. 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 press).
7. Wang RY, Rudser KD, **Dengel DR**, Braunlin EA, Steinberger J, Jacobs DR, Sinaiko AR, Kelly AS: Carotid intima-media thickness and arterial stiffness of pediatric mucopolysaccharidosis patients are increased compared to both pediatric and adult controls. *International Journal of Molecular Sciences* (in review).

### Articles In Review

1. 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).
2. \*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).
3. Malhorta S, Cirnigliaro CM, La Fountaine 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).

### 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, 6<sup>th</sup> 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<sub>2</sub> or VO<sub>2</sub>max: 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?" 7<sup>th</sup> 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", 27<sup>th</sup> 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", 25<sup>th</sup> 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", 47<sup>th</sup> 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", 23<sup>rd</sup> 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. "VO<sub>2</sub>max 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 VO<sub>2</sub> 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, Metzиг 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, Metzиг 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).
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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.
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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.
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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.
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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 VO<sub>2</sub> 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 PCO<sub>2</sub> 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 Dilatation 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 Dilatation: 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 Dilatation." (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 Dilatation 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  $\beta_2$  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 (2012-2016)

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*

American Editor, International Journal of Sports Medicine (2017-present)

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 (2012-2016)

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

Committee Member, Pediatric Exercise Data Harmonization Project, NIH Sponsored Committee,  
University of California-Irvine (2011-2013)

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 (2014-2016)

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)*