CURRICULUM VITAE

Jeffrey F. Horowitz, PhD

CONTACT INFORMATION

Address: University of Michigan
School of Kinesiology
401 Washtenaw Ave
Ann Arbor, MI 48109-2214
Telephone: (734) 647-1076
FAX: (734) 936-1925
e-mail: jeffhoro@umich.edu

PRESENT POSITION

Professor - School of Kinesiology 2012-
The University of Michigan, Ann Arbor, MI

EDUCATION

Ph.D. University of Texas at Austin; Exercise Physiology 1996
M.A. University of Texas at Austin; Exercise Physiology 1992
B.S.E. University of Iowa; Biomedical Engineering 1989

PROFESSIONAL EXPERIENCE

Associate Professor - School of Kinesiology 2006-2012
The University of Michigan, Ann Arbor, MI

Assistant Professor - School of Kinesiology 2000-2006
The University of Michigan, Ann Arbor, MI

Research Instructor in Medicine – Division of Gastroenterology 1999-2000
Washington University School of Medicine, St. Louis, MO

POST-DOCTORAL TRAINING

Washington University School of Medicine, St. Louis, MO 1996-1999

TEACHING EXPERIENCE

University of Michigan, School of Kinesiology 2000-present

Teaching assistant instructor: Department of Kinesiology 1989-1995
and Health Education - The University of Texas at Austin

PROFESSIONAL ORGANIZATIONS

American College of Sports Medicine (Fellow)
American Physiological Society
American Diabetes Association
American Society of Nutrition

HONORS

University of Michigan Kinesiology Excellence in Teaching Award (2010)
Fellow of the American College of Sports Medicine (2005)
National Research Service Award (1998) – National Institutes of Health
International Young Scientist Award (1996) - The August Krogh Institute, Copenhagen, Denmark
National Student Researcher Award (1996) - American College of Sports Medicine
Outstanding Dissertation Award (1996) - The University of Texas at Austin
Outstanding Student Researcher Award (1996) - American College of Sports Medicine, Texas Chapter
Professional Development Award (1991, 1992, 1995) - The University of Texas at Austin

RESEARCH

GRANTS – ACTIVE SUPPORT

Role: PI
Source: National Institutes of Health (R01 DK077966)
Title of Project: Insulin sensitivity and fatty acid partitioning in skeletal muscle after exercise
Major Goals: Determine the effects of acute and chronic exercise on the metabolic fate of fatty acids in skeletal muscle, and the impact on pro-inflammatory/stress and insulin sensitivity in obese adults
Dates of Project: 4/1/10 – 11/30/2020
Annual Direct Cost: $400,000/yr
Percent Effort: 25%

Role: PI
Source: American Diabetes Association (1-16-ICTS-048)
Title of Project: Protection against insulin resistance in obesity
Major Goals: To identify novel factors in adipose tissue and skeletal muscle that "protect" some obese adults from becoming insulin resistant
Dates of Project: 1/1/16 - 12/31/18
Annual Direct Cost: $180,000/yr
Percent Effort: 10%

Role: Core Director (Human Phenotyping Core) [PI: Charles Burant]
Source: National Institutes of Health (P30 DK089503)
Title of Project: Michigan Nutrition and Obesity Research Center (NORC) – Integrative Basic and Clinical Obesity Research Center
Major Goals: To facilitate the performance of basic and clinical nutrition and obesity research
Dates of Project:7/01/15 – 6/30/20
Annual Direct Cost: $750,000/yr
Percent Effort: 10%

Role: Co-I (PI: Zhengping Yi, Wayne State University)
Source: American Diabetes Association (1-13-TS-27)
Title of Project: Effect of Exercise on Human Skeletal Muscle Tyrosine Phosphoproteome
Major Goals: Determine the effect of acute and chronic exercise on novel tyrosine phosphorylation sites in human skeletal muscle and how this may be associated with insulin sensitivity.
Dates of Project: 7/1/2013-6/30/2016
Annual Direct Cost: $174,000/year
Percent Effort: 5%

Role: Co-I (PI: Zhengping Yi, Wayne State University)
Source: National Institutes of Health (R01 DK081750)
Title of Project: Human Skeletal Muscle Proteome & Phosphoproteome in Obesity and Type 2 Diabetes
Major Goals: This study explores function and regulation of protein phosphatase 2A in human skeletal muscle in obesity and type 2 diabetes.
Dates of Project: 8/1/14-04/30/19
Annual Direct Cost: $200,000/year
Percent Effort: 5%

Role: Co-I [PI: Zhengping Yi, Wayne State University]
Source: National Institutes of Health (R01 DK107666)
Title of Project: Serine/threonine Protein Phosphatase 1 in Insulin resistance and Type 2 Diabetes
Major Goals: Examine novel phosphorylation events on serine/threonine protein residues human skeletal muscle
Dates of Project: 9/25/15 – 8/31/20
Annual Direct Costs: $330,000/yr
Percent Effort: 10%

GRANTS – PREVIOUS AWARDS

Role: PI
Source: National Institutes of Health (R01 DK071955)
Title of Project: Growth hormone (GH) as a determinant of weight regulation
Major Goals: Determine the impact of GH on the susceptibility for gaining weight and investigate the effect of growth hormone delivery on key metabolic processes that contribute to basal metabolic rate
Dates of Project: 9/01/05 - 8/31/11
Annual Direct Cost: $265,000/yr
Percent Effort: 30%

Role: PI
Source: Robert C. Atkins Foundation
Title of Project: Dietary fatty acid composition and obesity-related metabolic abnormalities
Major Goals: To compare the effects of a high saturated fat diet and a high unsaturated fat diet on insulin sensitivity and factors regulating insulin action in overweight men and women
Dates of Project: 5/01/07 - 4/30/11
Annual Direct Costs: $220,000/yr
Percent Effort: 10%

Role: PI (Co-PI: Karen Peterson, School of Public Health)
Source: University of Michigan - Provost Faculty Expansion Initiative
Title of Project: "Physical Activity and Nutrition" (2 new faculty positions)
Major Goals: Obtain support for salaries and start up costs from University on Michigan administration for two new faculty members to teach and conduct research in the content area of "Physical activity and Nutrition" within the School of Kinesiology and the School of Public Health
Dates of Project: 9/1/2011 – for duration the hired faculty remain at the University of Michigan
Annual Direct Costs: $100,000-$150,000 salary support per year for each position and $500,000 start-up cost recovery for each position
Percent Effort: 0%

Role: Co-I (PI: Craig Jaffe, MD)
Source: National Institutes of Health (R01 DK061501)
Title of Project: Physiological importance of growth hormone pulsatility
Major Goals: Determine the effect of different methods of growth hormone administration (constant dose vs. pulsatile dose) on lipid and protein metabolism
Dates of Project: 4/01/04 - 3/31/09
Annual Direct Costs: $283,000/yr
Percent Effort: 25%

Role: PI
Source: American Diabetes Association (1-03-JF-10)
Title of Project: Fatty acid metabolism and insulin sensitivity: The role of endurance exercise training
Major Goals: Determine the effect of exercise and weight loss on the regulation of insulin sensitivity and lipid-induced insulin sensitivity.
Dates of Project: 1/01/03 - 12/31/05
Annual Direct Costs: $120,000/yr
Percent Effort: 30%

Role: Co-I
Source: Michigan Life Sciences Corridor
Title of Project: Improving muscle power and mobility of elderly men and women
Major Goals: Determine the effect of high vs. low velocity resistance training on power production and fall prevention in elderly men and women after 12 weeks of progressive resistance strength training
Dates of Project: 8/1/02 - 7/31/05
Annual Direct Cost: $1,200,000/yr
Percent Effort: 20%

PREVIOUS GRANT AWARDS (continued)

Role: PI
Source: Michigan Diabetes Research Training Center
Title of Project: Role of elevated fatty acid availability on skeletal muscle fatty acid metabolism and the exercise induced increase in insulin sensitivity
Major Goals: Determine the impact of fatty acid disposal on insulin sensitivity and the expression of cellular factors that regulate fatty acid metabolism after a single session of exercise in obesity
Dates of Project: 1/03 - 1/04
Annual Direct Costs: $35,000/yr
Percent Effort: 10%

Role: PI
Source: The University of Michigan Rackham Graduate School
Title of Project: Role of acute physical inactivity and diet on lipid metabolism
Major Goals: Determine the effect of physical inactivity on triglyceride clearance from the circulation
Dates of Project: 11/01/01 - 11/01/02
Annual Direct Costs: $15,000/yr
Percent Effort: 10%

Role: PI
Source: The Michigan Memorial Phoenix Project
Title of Project: Role of acute physical inactivity and diet on lipid metabolism
Major Goals: Determine the fate of ingested lipids (i.e.; oxidation, conversion to other lipid intermediates or storage)
Dates of Project: 1/01/02 - 1/01/03
Annual Direct Costs: $10,000/yr
Percent Effort: 10%

PENDING GRANT AWARDS

Role: PI
Source: National Institutes of Health (R01 DK077966) [Competitive Renewal]
Title of Project: Insulin sensitivity and fatty acid partitioning in skeletal muscle after exercise
Major Goals: Determine the effects of acute and chronic exercise on the metabolic fate of fatty acids in skeletal muscle, and the impact on pro-inflammatory/stress and insulin sensitivity in obese adults
Dates of Project: 12/1/15 - 11/30/20
Annual Direct Cost: $420,000/yr
Percent Effort: 30%
This grant received a 13th percentile score (June 2015) – Funding decision pending

Role: PI
Source: American Diabetes Association
Title of Project: Protection against insulin resistance in obesity
Major Goals: To identify factors associated with adipose tissue structure and metabolic function that may underlie insulin resistance and other metabolic abnormalities in obesity
Dates of Project: 4/1/16-3/31/19
Annual Direct Costs: $180,000/yr
Percent Effort: 10%
This grant has advanced to the final review (top 25% of applicant pool) - final funding decision will be made in December 2015

PENDING GRANT AWARDS (continued)
Role: Co-Investigator [PI: Charles Evans, Pennington Biomedical Research Center]
Source: National Institutes of Health (R01)
Title of Project: Differentiating the intrinsic and training-responsive contributions to exercise capacity and metabolic health
Major Goals: Determine metabolic determinants of intrinsic exercise capacity
Dates of Project: 5/1/16 – 4/30/21
Annual Direct Costs: $250,000/yr
Percent Effort: 10%

Invited lectures and keynote addresses

1. "Regulation of lipid mobilization in Obesity" *7th Annual European Congress of Sports Science*, Athens Greece, 2002.
2. "Exercise in obesity" *Turkish Obesity Congress,* Antalya, Turkey, 2002.
3. "Lipid Mobilization and Exercise" *Turkish Obesity Congress,* Antalya, Turkey, 2002
4. "The regulation of lipid metabolism in Obesity" *Annual Ontario Exercise Physiology Conference*, Barrie, Ontario, 2002. (Keynote lecture)
5. "Regulation of lipid mobilization and oxidation in obesity" *University of Toledo Annual Exercise Physiology Symposium*, 2002. (Keynote lecture)
6. "Diet and the control of substrate selection" *Canadian Society of Exercise Physiology*, Niagra on the lake, Ontario, Canada, Oct 2003 (Symposium Panelist/Speaker)
7. "Lipid mobilization and oxidation in obesity: A link to insulin resistance" Michigan Diabetes Research Training Center Annual Symposium, March, 2004 (Symposium Speaker)
8. "Regulation of Adipose tissue lipolysis" *American College of Sports Medicine Annual Conference*, Indianapolis, Indiana, June, 2004 (Featured Symposium Panalist/Speaker)
9. "Lipid mobilization and oxidation in obesity". *Florida Department of Health, Diabetes Prevention and Control Program Teleconference* August, 2004 (Keynote lecture)
10. "Does Exercise protect against lipid-induced impairments in insulin sensitivity" *MacMaster University Exercise Physiology Seminar Series*, March, 2005
11. "Exercise, Lipid Metabolism and insulin sensitivity" *American Diabetes Association – Michigan Research Panel Discussion*, July, 2005
12. "The effects of weight-loss and exercise on fatty acid partitioning and insulin sensitivity" *American Diabetes Association 67th Scientific Sessions,* Chicago, June 2007 (Featured Symposium Speaker)
13. "Effects of weight-loss and exercise training on insulin sensitivity" *ACSM Northland Regional Meeting*, Duluth, MN, October 2008 (Featured Speaker)
14. "Fatty acid partitioning and insulin sensitivity after acute exercise" *ACSM Northland Regional Meeting*, Duluth, MN, October 2008 (Featured Speaker)
15. "Effects of diet and exercise on muscle fat metabolism and insulin action" – *University of Toledo Diabetes Update "The Big Game".* Toledo OH, November, 2009 (Featured Speaker)
16. "Changes in Fat Oxidation in Response to Diet and Exercise: What is the Impact on Metabolic Health?" *American College of Sports Medicine Annual Conference*, Denver, CO, June, 2011 (Co-chair of symposium/Symposium Speaker)
17. "Regulation of muscle lipid metabolism: implications for chronic disease" – Intramuscular Fat Conference - University of California-San Diego, San Diego, September 2011 (Featured Speaker)
18. "Exercise and dietary effects on fat metabolism that may improve metabolic health" - University of Windsor Distinguished Speaker Series, Windsor, Ontario Canada, November 2011 (Invited Lecture)
19. "Mechanisms for improving muscle insulin action through changes in exercise and dietary behaviors" – Wayne State University School of Medicine, April 2012 (Invited-Grand Rounds Lecture)

20. "Mechanisms for improving muscle insulin action through changes in exercise and dietary behaviors" - Pathobiology Seminar Series, Lerner Research Institute, Cleveland Clinic, May 2012 (Invited Lecture)
21. Effects of exercise and diet on muscle lipid metabolism and insulin resistance" 4th Annual Muscle Health Awareness Symposium – York University, Toronto, Canada, May 2013 (Invited Lecture)
22. "Effects of exercise and diet on muscle fat metabolism and insulin action" – European College of Sport Sciences Annual Meeting – Barcelona, Spain, June 2013 (Co-Chair and invited Symposium Speaker.
23. "Metabolic effects of eating before, during and after exercise: implications for endurance exercise performance" – International Forum on the Sports Science Industry – Taipei, Taiwan, Nov 2, 2013 (Invited Lecture)
24. "Exercise and dietary effects on lipid metabolism that may improve cardio-metabolic health" - University of Taipei - Taipei, Taiwan, Nov 2, 2013 (Invited Lecture)
25. "Exercise and diet effects on fat metabolism that may improve Cardio-metabolic health" University of Illinois, Chicago – March 7, 2014 (Invited Lecture)
26. "Working out the kinks: Impact of exercise on insulin resistance" – Integrative Physiology of Exercise Conference – Miami, Florida – Sept 20, 2014 (Featured Symposium Speaker)
27. "Factors underlying the exercise-induced improvement in insulin resistance" – Arizona State University/Mayo Clinic – Scottsdale, AZ – November 13, 2014 (Invited Lecture)
28. "Impact of exercise and diet on insulin resistance and metabolic health in obesity" – Virginia Tech University – Blacksburg, VA – December 8, 2014 (Invited Lecture)
29. "Impact of exercise and diet on insulin resistance and metabolic health in obesity" – Pennington Biomedical Research Center - Baton Rouge, LA – March 19, 2015 (Invited Lecture)

PUBLICATIONS (PEER-REVIEWED)

1. Coyle EF, LS Sidossis, JF Horowitz, and JD Beltz. Cycling efficiency is related to the percentage of Type I muscle fibers. *Med. Sci. Sports Exerc.* 24(7): 782-788, 1992.
2. Sidossis LS, JF Horowitz, and EF Coyle. Load and velocity of contraction influences gross and delta mechanical efficiency. *Int. J. Sports Med.* 13(5): 407-411, 1992.
3. Balon TW, JF Horowitz, and KM Fitzsimmons. Effect of carbohydrate loading and weight-lifting on muscle girth. *Int. J. Sprts. Nutr*. 2:328-334, 1992.
4. Horowitz JF and EF Coyle. Metabolic responses to pre-exercise meals containing various carbohydrates and fat. *Am. J. Clin. Nutr.* 58: 235-241, 1993.
5. Romijn JA, EF Coyle, L Sidossis, A Gastaldelli, JF Horowitz, E Endert, and RR Wolfe. Regulation of endogenous fat and carbohydrate metabolism in relation to exercise intensity. *Am. J. Physiol.* 265(28): E380-E391, 1993.
6. Horowitz JF, LS Sidossis, and EF Coyle. High efficiency of Type I muscle fibers improves performance. *Int. J. Sports Med.* 15(3):152-157, 1994.
7. Horowitz JF, R Mora-Rodriguez, LO Byerley, and EF Coyle. Lipolytic suppression following carbohydrate ingestion limits fat oxidation during exercise. *Am J. Physiol*. 273(36):E768-E775, 1997.
8. Coppack SW, JF Horowitz, DS Paramore, PE Cryer, HD Royal, and S Klein. Whole body, adipose tissue, and forearm norepinephrine kinetics in lean and obese women. *Am. J. Physiol.* 275(38): E830-E834, 1998.

9. Horowitz JF, R Mora-Rodriguez, LO Byerley, and EF Coyle. Substrate metabolism when fed carbohydrate during exercise. *Am J. Physiol*. 276(39):E828-E835, 1999.
10. Horowitz JF., SW. Coppack, D Paramore, P Cryer, G Zhao, and S Klein. Effect of short-term fasting on lipid kinetics in lean and obese women. *Am. J. Physiol.* 276(2 Pt 1): E278-E284, 1999.
11. Horowitz JF, RJ Braudy, WH Martin, and S Klein. Endurance exercise training does not alter lipolytic or adipose tissue blood flow sensitivity to epinephrine. *Am. J. Physiol*. 277(40):E325-E331, 1999.
12. Horowitz JF, R Mora-Rodriguez, LO Byerley, and EF Coyle. Pre-exercise medium-chain triglyceride ingestion does not alter muscle glycogen use during exercise. *J. Appl. Physiol.* 88:219-225, 2000.
13. Horowitz JF and S Klein. Whole-body and abdominal subcutaneous adipose tissue lipolytic sensitivity to epinephrine is suppressed in women with upper-body obesity. *Am. J. Physiol.* 278:E1144-E1152, 2000.
14. Horowitz JF and S Klein. Oxidation of non-plasma fatty acids during exercise is increased in women with abdominal obesity. *J. Appl. Physiol.* 89:2276-2282, 2000.
15. Horowitz JF, TC Leone, DP Kelly, and S Klein. Effect of endurance training on lipid metabolism in women: a role for PPARα in the metabolic response to training. *Am. J. Physiol. Endocrinol. Metab.* 279: E348-E355, 2000.
16. Klein S, JF Horowitz, M Landt, SJ Goodrick, V Mohamed-Ali, and SW Coppack. Leptin production during short-term fasting in lean and obese women. *Am. J. Physiol.* 278: E280-E284, 2000.
17. Davis A, M Christensen, JF Horowitz, S Klein, M Hellerstein, and RE Ostlund. Effect of pinitol treatment on insulin action in subjects with insulin resistance. *Diabetes Care.* 23(7):1000-1005, 2000.
18. Racette SB, JF Horowitz, B Mittendorfer, and S Klein. Racial differences in lipid metabolism in women with abdominal obesity. *Am. J. Physiol*. 279(3):R944-R950, 2000.
19. Horowitz JF, SW Coppack, and S Klein. Whole-body and adipose tissue glucose metabolism in response to short-term fasting in lean and obese women. *Am. J. Clin. Nutr.*73:517-522, 2001.
20. Landt M, JF Horowitz, SW Coppack, and S Klein. Effect of short-term fasting on free and bound leptin concentrations in lean and obese women. *J Clin Endocrinol Metab.* 86(8):3768-3771, 2001.
21. Horowitz JF, and S Klein. Differences in acetate recovery factor between groups may interfere with tracer estimates of fat oxidation - Letters to the Editor. *J. Appl. Physiol.* 90:2520-2521, 2001.
22. Mittendorfer B, JF Horowitz, and S Klein. Gender differences in lipid and glucose kinetics during short-term fasting. *Am J Physiol*. 281(6):E1333-E1339, 2001.
23. Patterson BW, JF Horowitz, G Wu, M Watford, SW Coppack, and S Klein Regional muscle and adipose tissue amino acid metabolism in lean and obese women *Am J Physiol* 282:E931-E936, 2002.
24. Mittendorfer B, JF Horowitz, and S Klein, Effect of gender on lipid kinetics during moderate intensity endurance exercise in untrained subjects. *Am J. Physiol.* 283:E58-E65, 2002.
25. Fox AK, AE Kaufman, and JF Horowitz. Adding fat calories to meals after exercise does not alter insulin sensitivity. *J. Appl. Physiol*. 97:11-16, 2004.
26. Schenk S, JN Cook, AE Kaufman, and JF Horowitz. Post-exercise insulin sensitivity is not impaired after an overnight lipid infusion. *Am. J. Physiol.* 288(3):E519-E525, 2005
27. Horowitz JF, AE Kaufman, AK Fox, and MP Harber. Energy deficit without reducing dietary carbohydrate alters resting carbohydrate oxidation and fatty acid availability. *J Appl Physiol*. 98(5):1612-1618, 2005.
28. Harber MP, S Schenk, AL Barkan and JF Horowitz. Alterations in carbohydrate metabolism in response to short-term dietary carbohydrate restriction. *Am J Physiol Endocrinol Metab*. 289:E306-E312, 2005.

29. Harber MP, S Schenk, AL Barkan and JF Horowitz. Effects of dietary carbohydrate restriction with high protein intake on protein metabolism and the somatotropic axis. *J Clin Endocrinol Metab*. 90:5175-5181, 2005.
30. Knuth, ND and JF Horowitz. The elevation of ingested lipids within plasma chylomicrons is prolonged in men compared with women. *J Nutr.* 136:1498-1503, 2006. PMID: 16702311
31. Schenk S and JF Horowitz. Co-immunoprecipitation of FAT/CD36 and carnitine palmitoyl transferase-I in skeletal muscle increases proportionally with fat oxidation after endurance exercise training. *Am J Physiol Endocrinol Metab.* 291(2):E254-E260, 2006. PMID: 16670153
32. Schenk S and JF Horowitz. Acute exercise increases triglyceride synthesis in skeletal muscle and prevents fatty acid-induced insulin resistance. *J. Clin Invest*. 117(6): 1690-1698, 2007. PMID: 17510709
33. Knuth, ND, Remias DB, and JF Horowitz. Adding carbohydrate to high-fat meal blunts postprandial lipemia in women and reduces meal-derived fatty acids in systemic circulation. *Appl Physiol Nutr Metab*. 33: 315-325, 2008. PMID: 18347687
34. Sakharova AA, Horowitz JF, Surya S, Goldenberg N, Harber MP, Symons K, Barkan A.Role of growth hormone in regulating lipolysis, proteolysis, and hepatic glucose production during fasting. *J Clin Endocrinol Metab*. 93(7):2755-2759, 2008. PMCID: PMC2453052
35. Knuth, ND, Shrivastava, SR, and JF Horowitz. Reducing dietary fat from a meal increases the bioavailability of exogenous carbohydrate without altering plasma glucose concentration. *J Appl Physiol.* 106(1): 122-129, 2009. PMCID: PMC2636944
36. Surya, S, JF Horowitz, Goldenberg, N, Sakharova, A, Harber, M, Cornford, AS, Symons, K, and AL Barkan. The pattern of GH delivery to peripheral tissues determines IGF-1 and lipolytic responses in obese people. *J Clin Endocrinol Metab.* 94(8): 2828-2834, 2009. PMCID: PMC2730877
37. Schenk, S, MP Harber, CR Shrivastava, CF Burant, and JF Horowitz. Improved insulin sensitivity after weight loss and exercise training is mediated by a reduction in plasma fatty acid mobilization, not enhanced oxidative capacity. *J. Physiol*. 587(20):4949-4961, 2009. PMID: 19723783
38. Newsom SA, Schenk S, Thomas KM, Harber MP, Knuth ND, Goldenberg N, and JF Horowitz. Energy deficit after exercise augments lipid mobilization but does not contribute to the exercise-induced increase in insulin sensitivity. *J Appl Physiol*. 108(3):554-60, 2010. PMID: 20044472
39. Newsom SA, Schenk S, Li M, Everett AC, JF Horowitz. High fatty acid availability after exercise alters the regulation of muscle lipid metabolism. *Metabolism*. 60(6):852-9, 2011. PMCID: PMC3011035
40. Cornford AS, Barkan AL, and JF Horowitz. Rapid Suppression of Growth Hormone Concentration by Overeating: Potential Mediation by Hyperinsulinemia. *J Clin Endocrinol Metab*. 96(3):824-30, 2011. PMCID: PMC3047219
41. Li M, Paran C, Wolins NE, and JF Horowitz. High muscle lipid content in obesity is not due to enhanced activation of key triglyceride esterification enzymes or to the suppression of lipolytic proteins. *Am J Physiol Endo*. 300(4):E699-E707, 2011. PMCID: PMC3074947\
42. Mittendorfer B, Horowitz JF, DePaoli AM, McCamish MA, Patterson BW, and S Klein. Recombinant human leptin treatment does not improve insulin action in obese subjects with type 2 diabetes. *Diabetes*. 60(5):1474-1477, 2011. PMCID: PMC3292320
43. Claflin DR, Larkin LM, Cederna, PS, Horowitz, JF, Alexander NB, Cole NM, Galecki AT, Chen S, Nyquist L, Carlson BM, Faulkner JA, and JA Ashton-Miller. Effects of high- and low-velocity resistance training on the contractile properties of skeletal muscle fibers from young and older humans. *J Appl Physiol.* 111(4): 1014-1020, 2011. PMCID: PMC3191797
44. Cornford AS, Barkan AL, Hinko A, and JF Horowitz. Suppression in growth hormone during overeating ameliorates the increase in insulin resistance and cardiovascular disease risk. *Am J Physiol Endocrinol Metab*. 303(10):E1264-E1272, 2012. PMCID: PMC3517632

45. Watt MJ, Barnett AC, Bruce CR, Schenk S, Horowitz JF, and AJ Hoy. Regulation of plasma ceramide levels with fatty acid oversupply: evidence that the liver detects and secretes de novo synthesised ceramide. *Diabetologia*, 55(10): 2741-2746, 2012. PMID:22854889 - NIHMS439819

46. Boon J, Hoy AJ, Stark R, Brown RD, Meex RC, Henstridge DC, Schenk S, Meikle PJ, Horowitz JF, Kingwell BA, Bruce CR, and MJ Watt. Ceramides Contained in LDL Are Elevated in Type 2 Diabetes and Promote Inflammation and Skeletal Muscle Insulin Resistance. *Diabetes*, 62(2): 401-410, 2013. PMCID: PMC3554351

47. Cornford AS, Hinko A, Nelson, RK, Barkan AL, and JF Horowitz. Rapid development of systemic insulin resistance with overeating is not accompanied by robust changes in skeletal muscle glucose and lipid metabolism. *Appl Physiol Nutr Metab*. 38(5):512-519, 2013. PMCID: PMC3891585

48. Nelson RK, Horowitz JF, Holleman RG, Swartz AM, Strath SJ, Kriska AM, and Richardson CR. Daily physical activity predicts degree of insulin resistance: a cross-sectional observational study using the 2003--2004 National Health and Nutrition Examination Survey. *Int J Behav Nutr Phys Act*. 10:10, 2013. PMCID: PMC3575359

49. Newsom SA, Everett AC, Hinko A, and JF Horowitz. A single session of low-intensity exercise is sufficient to enhance insulin sensitivity into the next day in obese adults. *Diabetes Care*. 36(9): 2516-2622, 2013. PMCID: PMC3747878

50. Nelson RK, and JF Horowitz. Acute exercise ameliorates differences in insulin resistance between physically active and sedentary overweight adults. *Appl Phys Nutr Metab*.39(7):811-418, 2014. PMCID: PMC4115061

51. Caruso M, Ma D, Msallaty Z, Lewis M, Seyoum B, Al-Janabi W, Diamond M, Abou-Samra AB, Højlund K, Tagett R, Draghici S, Zhang X, Horowitz JF, Yi Z Increased Interaction with Insulin Receptor Substrate-1, a Novel Abnormality in Insulin Resistance and Type 2 Diabetes. *Diabetes.* Jun;63(6):1933-1947, 2014. PMCID: PMC4030113

52. Van Pelt DW, Newsom SA, Schenk S, and JF Horowitz. Relatively low endogenous fatty acid mobilization and uptake helps preserve insulin sensitivity in obese women. *Int. J. Obesity*. 39(1):149-155, 2015. PCMID: PMC42167783.

53. Newsom SA, Everett AC, Park S, Hinko A, Van Pelt DW, and JF Horowitz. Lipid mixtures containing a very high proportion of saturated fatty acids only modestly impair insulin signaling in cultured muscle cells. *PlosOne*, 10(3), 2015 PMCID: PMC4368748

INVITED REVIEWS AND BOOK CHAPTERS

1. Horowitz JF and S Klein. Lipid metabolism during endurance exercise. *Am. J. Clin. Nutr*. 72(suppl.) 558S-563S, 2000.
2. Horowitz JF. Regulation of lipid mobilization and oxidation during exercise in obesity. *Exerc. Sport Sci. Rev.* 29(1), 42-46, 2001.
3. Horowitz JF and S Klein. Endurance exercise and adipose tissue lipolysis in vivo. In: B. Nicklas ed. Endurance Exercise and Adipose Tissue. Boca Raton, FL. CRC Press. pps. 15-30, 2001.
4. Horowitz JF. Fatty acid mobilization from adipose tissue during exercise. *Trends Endocrinol. Metab.* 14(8): 386-392, 2003.
5. Horowitz JF. Adipose tissue lipid mobilization during exercise. In: M Hargreaves and LL Spriet eds. Metabolic responses to exercise. Champaign, Il. Human Kinetics. pps. 89-104, 2006.
6. Horowitz JF. Exercise-induced alterations in muscle lipid metabolism improve insulin sensitivity. *Exerc Sport Sci Rev*. 35(4):192-196, 2007.
7. Horowitz, JF. Insulin Resistance, In: *Encyclopedia of Exercise Medicine in Health and Disease*. Springer Publishing. New York/Heidelberg Germany. 2012

ABSTRACTS (PAST TEN YEARS)

1. Fox AK, AE Kaufman, and JF Horowitz. High-fat meals after exercise do not alter the exercise-induced increase in glucose tolerance. *Med. Sci. Sports Exerc.* 2003.
2. Kaufman AE, AK Fox, and JF Horowitz. Addition of fat to post-exercise meals does not alter the exercise-induced reduction in fasting plasma triglycerides. *Med. Sci. Sports Exerc.* 2003
3. Knuth ND, SM Cook, and JF Horowitz. Determining the metabolic fate of ingested lipids. FASEB 2003.
4. Wuorinen ECN, KT Borer, JF Horowitz, and CF Burant. Role of insulin and leptin in the suppression of appetite by exercise. Endocrine Society Meeting, 2003
5. Farhat JS, CM Mulla, LM Jackson, JF Horowitz, CA Jaffe, and DL Foster. An exercise model to study energy balance and reproductive neuroendocrine function in adolescent sheep. Society for the Study of Reproduction. 2003.
6. Harber MP, AK Fox, AE Kaufman, and JF Horowitz. Energy deficit alters carbohydrate oxidation and PDK4 mRNA independent of carbohydrate intake American College of Sports Medicine National Conference – Indianapolis, IN - June 2004
7. Remias DB, ND Knuth, S Schenk, and JF Horowitz. Adding Carbohydrate to a Fat Meal Alters Post-Prandial Lipemia Without Changing Plasma Triglyceride Concentration. American College of Sports Medicine National Conference – Indianapolis, IN - June 2004
8. Knuth ND, SM Cook, DB. Remias, and JF Horowitz. Gender differences in the recovery of ingested fat in chylomicron, VLDL, and plasma fatty acids. American College of Sports Medicine National Conference – Indianapolis, IN - June 2004
9. Schenk S, AE. Kaufman, JN Cook, JF Horowitz. Post-exercise Insulin Sensitivity is Not Impaired After an Overnight Lipid Infusion. American College of Sports Medicine National Conference – Indianapolis, IN - June 2004
10. Harber MP, S. Schenk, A. Barkan, and JF Horowitz. Adaptations in glucose and protein metabolism after short-term dietary carbohydrate restriction – American Physiological Society – Integrative Biology of Exercise Meeting, Austin, Texas - October, 2004.
11. Larkin LM, JF Horowitz, PS Cederna, JA Faulkner, and DC Claflin, Effects of age and progressive resistance training on fatigability of single muscle fibers from the vastus lateralis muscle of women. Experimental Biology, San Diego, CA – April 2005.
12. Harber MP, S Schenk, A Barkan, and JF Horowitz. Short-term carbohydrate restriction increases both proteolysis and protein synthesis. American College of Sports Medicine National Conference – Nashville, TN - June 2005.
13. Schenk S, CE McCurdy, MP Harber, and JF Horowitz. FAT/CD36 Immunoprecipitates with Carnitine Palmitoyl Transferase-I in Human Skeletal Muscle and this Physical Association Increases with Endurance Exercise Training. American Diabetes Association 65th Scientific Sessions – San Diego, CA – June 2005
14. Knuth ND, MT Hamilton, and JF Horowitz. Treadmill walking for one day reduces plasma triglyceride concentration in response to intravenous lipid injection. Canadian Federation of Biological Sciences – Guelph Ontario, Canada – June 2005.
15. Schenk, S, Goldenberg, N, and JF Horowitz. A Single Session of Endurance Exercise Protects Against Fatty-Acid Induced Insulin Resistance. ACSM – Denver, CO, June 2006
16. Harber, MP, Larkin, LM, Ashton-Miller, JA, and JF Horowitz. Metabolic adaptations to resistance training in skeletal muscle from young and older women. American College of Sports Medicine (ACSM) – Denver, CO, June 2006
17. Schenk, S, Harber, MP, Shrivastava, CR, Burant, CF and JF Horowitz, Increased Skeletal Muscle Oxidative Capacity After Endurance Exercise Training Does Not Protect Against Fatty Acid-Induced Insulin Resistance . American Diabetes Association (ADA) – Washington DC - June 2006.

18. Horowitz, JF, Harber MP, Shrivastava, CR, Burant, CF and S. Schenk, Improved Insulin Sensitivity After Weight-Loss is Mediated by a Reduction in Plasma Fatty Acid Availability and Uptake. American Diabetes Association (ADA) – Washington DC - June 2006.
19. Knuth, ND and JF Horowitz. Reducing dietary fat from a meal increases the bioavailability of exogenous carbohydrate without altering plasma glucose concentration. American College of Sports Medicine (ACSM) – New Orleans, LA – June 2007.
20. Sakharova, AA, Surya, S, Goldenberg, N, Harber, MP, Symons, K , Horowitz, JF, and A Barkan. Endogenous growth hormone regulates fuel mobilization during fasting. Endocrine Society (ENDO) – Toronto Canada– June 2007.
21. Surya, S, Goldenberg, N, Sakharova, AA, , Harber, MP, Symons, K , Horowitz, JF, and A Barkan. Differential responses of IGF-1 and substrate metabolism to continuous or pulsatile administration of growth hormone in obesity. Endocrine Society (ENDO) – Toronto Canada– June 2007
22. Cornford, AS, Horowitz, JF, Schenk, S. Burant, CF, AR Subauste. Agpat1 decreases insulin signaling by activating the mTOR pathway. American Diabetes Association (ADA) – Chicago, IL – June 2007.
23. Knuth, ND, Remias, DB and JF Horowitz. Adding Carbohydrate to High-fat Meal Blunts Postprandial Lipemia in Women and Reduces Bioavailability of Meal-derived Fatty Acids in the Systemic Circulation. American Diabetes Association (ADA) – Chicago, IL – June 2007.
24. Newsom, SA, Schenk, S, and JF Horowitz. Fat oxidation tracks with fatty acid availability at low but not high plasma fatty acid concentrations. Experimental Biology, San Diego, CA – April 2008
25. Cornford, AS, Li, M, Schenk, S, Harber, MP, and JF Horowitz. Alterations in lipid metabolism after one day of overeating are reversed by a single session of exercise. American Physiological Society - Integrative Biology of Exercise-V Conference – Hilton Head, SC. Sept 2008.
26. Newsom, SA, Thomas, KM, Schenk, SS, Harber, MP, Knuth, ND, Goldenberg, N, and JF Horowitz. Reducing dietary fat from meals after exercise enhances muscle glycogen resynthesis in unfit adults. American Physiological Society - Integrative Biology of Exercise-V Conference – Hilton Head, SC. Sept 2008.
27. Cornford, AS, AL Barkan, and JF Horowitz. Growth Hormone is markedly suppressed after only a few days of overeating. 14th International Biochemistry of Exercise Conference, Guelph, Ontario, Canada, June 2009.
28. Li, M, C Paran, and JF Horowitz. High triglyceride content in skeletal muscle from obese women is not due to enhance lipogenic enzyme activity. 14th International Biochemistry of Exercise Conference, Guelph, Ontario, Canada, June 2009.
29. Newsom, SA, S Schenk, KM Thomas, MP Harber, ND Knuth, N Goldberg and JF Horowitz. Energy deficit after exercise does not contribute to the exercise-induced increase in insulin sensitivity. 14th International Biochemistry of Exercise Conference, Guelph, Ontario, Canada, June 2009.
30. Weese, RK, ND Knuth, D Faden, and JF Horowitz. Endogenous substrate mobilization is remarkably unresponsive to acute changes in exogenous fat availability. 14th International Biochemistry of Exercise Conference, Guelph, Ontario, Canada, June 2009.
31. Li M. Paran C, Wolins NE, and JF Horowitz. High muscle triglyceride content in obesity is not due to elevated lipogenic enzyme activity or to the suppression of lipolytic proteins. Experimental Biology Conference, Anaheim, CA. April 2010.
32. Newsom SA, Schenk S, Li M, Everett AC, and JF Horowitz. Elevated fatty acid availability after exercise increases intramyocellular triglyceride content by enhancing capacity for fatty acid flux into skeletal muscle. Experimental Biology Conference, Anaheim, CA. April 2010.
33. Newsom SA, Schenk S, Harber MP, Burant CF, and JF Horowitz. Insulin Sensitivity is Lowest in Obese Women with High Rates of Fatty Acid Uptake. Integrative Physiology of Exercise Conference, Miami, Florida. September 2010.

34. Nelson RK, Horowitz JF, Holleman RG, Strath SJ, Kriska AM, Swartz AM, Richardson CR. Physical Activity is a Better Predictor of Insulin Resistance than Cardiorespiratory Fitness – Integrative Physiology of Exercise Conference - Miami, Florida. September, 2010.
35. Li M, Cornford AS, Schenk S, and JF Horowitz. Fatty Acid Uptake Is Enhanced after Modest Energy Deficit via Acute Exercise, Not Caloric Restriction, Integrative Physiology of Exercise Conference,Miami, Florida. September 2010.
36. Cornford AS, Barkan AL, and JF Horowitz. Suppression in Growth Hormone Secretion with Overeating Contributes to a Higher Whole-body Proteolytic Rate. Integrative Physiology of Exercise Conference, Miami, Florida. September 2010.
37. Cornford AS, Barkan AL, and JF Horowitz Suppression of Endogenous Growth Hormone with Overeating Not Responsible for the Reduction in Lipolytic Rate. American College of Sports Medicine (ACSM), Denver, CO. June 2011.
38. Newsom SA, Everett AC, and JH Horowitz. A single session of exercise improves insulin sensitivity in obese adults: effects of exercise intensity. ACSM, Denver, CO. June 2011.
39. Nelson RK, Li M, Hinko A, Burant CF, and JH Horowitz. Rapid Alterations in Plasma and Muscle Lipid Profiles in Response to a High Saturated Fat Diet. American Diabetes Association 71th Scientific Sessions, San Diego, CA. June 2011.
40. Newsom SA. Everett AC, and JF Horowitz. Improved Insulin Sensitivity the Day After a Modest Session of Exercise in Obese Adults. ACSM, San Francisco, CA, May, 2012.
41. Nelson, RK, and JF Horowitz. Single Session of Exercise Ameliorates Differences in Insulin Resistance Between Active and Inactive Overweight Adults. ACSM, San Francisco, CA, May, 2012.
42. Newsom SA, Everett AC, Hinko A, and JF Horowitz. The severe impairment in insulin signaling with palmitate in cultured muscle cells not found with physiologic mixtures of fatty acids. American Diabetes Association – Scientific Sessions, Philadelphia, PA, June 2012.
43. Cornford AC, Barkan AL, and JF Horowitz. Changes in Skeletal Muscle Metabolism May Not Contribute to the Early Development of Insulin Resistance After 2 Weeks of Overeating. American Diabetes Association – Scientific Sessions, Philadelphia, PA, June 2012.
44. N. Goldenberg N, Horowitz JF, Georgey A, Sakharova A and S Surya The magnitude of growth hormone pulse amplitude helps regulate the elevated lipolytic rate during prolonged fasting. Endocrine Society Annual Meeting, Houstin, TX, June 2012.
45. Nelson RK, Van Pelt DW, Gianchandani SY, and JF Horowitz. Effects of Habitual Physical Activity Level and Acute Exercise on Markers of Systemic Inflammation and Cardiometabolic Risk in Overweight/Obese Adults. American Physiological Society – Integrative Biology of Exercise Meeting, Westminster, CO, September 2012.
46. Park S, Gumucio JP, Hinko A, Newsom SA, and JF Horowitz. Insulin signaling in myotubes derived from obese adults was not impaired in response to a mixture of fatty acids resembling that found in human plasma American Physiological Society – Integrative Biology of Exercise Meeting, Westminster, CO, September 2012.
47. Halter J, Rothberg A, Pietropaolo M, Herman W, Horowitz J, and A Galecki. Weight Reduction Normalizes Impaired Beta Cell Function in Obese Adults. Keystone Symposia - Diabetes — New Insights into Mechanism of Disease and its Treatment, Keystone, CO, January 2013.
48. Van Pelt DW, Newsom SA, Schenk S, and JF Horowitz. Systemic fatty acid uptake and skeletal muscle inflammatory pathway activation may contribute to the variability in insulin sensitivity found in obesity. Experimental Biology Conference. Boston, MA April 2013.
49. Nelson, RK, and JF Horowitz. Adopting a modest-intensity exercise program can improve metabolic health in obese adults even without weight-loss. American College of Sports Medicine (ACSM), Indianapolis, IN. May 2013.

50. Nelson, RK, Van Pelt, DW, and JF Horowitz. Improvements in Insulin Action Only After Adding Weight-loss to a Mild-intensity Exercise Training Program. American College of Sports Medicine (ACSM), Orlando, FL. May 2014.

51. Van Pelt, DW, Guth, LM, Nelson, RK, Hinko, A, and JF Horowitz. Mild-intensity exercise training without weight loss very modestly improves cardio-metabolic disease risk in obese adults. Integrative Physiology of Exercise Conference, Miami, FL. Sept 2014.

52. Guth, LM, Van Pelt, DW, Nelson, RK, and JF Horowitz. Mild-intensity exercise training without weight loss does not alter markers of inflammation in obese adults. Integrative Physiology of Exercise Conference, Miami, FL. Sept 2014.

53. Wang, A, Guth, LM, Van Pelt, DW, Nelson, RK, Hinko, A. and JF Horowitz. A mild-intensity exercise program does not induce persistent improvements in insulin resistance without weight loss. Integrative Physiology of Exercise Conference, Miami, FL. Sept 2014.

54. Petit-Mee RJ, Horowitz JF, and RK Nelson. The influence of exercise and insulin resistance on biomarkers of endothelial dysfunction. American College of Sports Medicine (ACSM), san Diego, CA, May 2015

55. Van Pelt DW, Guth LM Hinko A, and JF Horowitz. Maintaining a Relatively Low Rate of Fatty Acid Mobilization from Adipose Tissue Helps Protect Obese Adults from Becoming Insulin Resistant. American Diabetes Association Scientific Sessions, Boston, MA, June 2015.

56. Guth LM, Van Pelt DW, Nelson RK, Hinko a, and JF Horowitz. Modest weight loss required for a mild-intensity exercise/lifestyle program to induce persistent improvements in insulin resistance. American Diabetes Association Scientific Sessions, Boston, MA, June 2015.

TEACHING

COURSES TAUGHT AT THE UNIVERSITY OF MICHIGAN

1. MOVESCI 340 – Exercise Physiology
2. KINESLGY 540 – Advanced Exercise Physiology
3. KINESLGY 541 – Experiments in Human Exercise Physiology
4. KINESLGY 572 – Fitness Evaluation and Exercise Prescription
5. KINESLGY 600 - Graduate Seminar in Movement Science
6. KINESLGY 615 - Philosophy of Science and Research in Kinesiology

STUDENT MENTORING

Doctoral students

Alison Ludzki (major advisor)	2014-
Doug Van Pelt (major advisor)	2012-
Rachael Nelson (major advisor)	2008-2013
Sean Newsom (major advisor)	2007-2012
Andrea Cornford (major advisor)	2005-2012
Simon Schenk, (major advisor)	2002-2006
Nicolas Knuth, (major advisor)	2001-2007

Major Advisees – current positions

Dr. Rachael Nelson is an Assistant Professor at Central Michigan University
Dr. Sean Newsom is n Assistant Professor at Oregon State University
Dr. Schenk is an Associate Professor at The University of California-San Diego
Dr. Knuth is an Assistant Professor at Towson University

Chanisa Thonusin (committee member)	2014-
Jonathan Gumucio (committee member)	2011-
Xiaoya Ma (Co-Chair and committee member)	2011-
Po-Ju Lin (committee member)	2007-
Carlos Castorena (committee member)	2007-2013
Nicollete Bradley – University of Guelph (committee member)	2012
Jesse Moes (committee member)	2009-2012
George Schweitzer (committee member)	2007-2012
John Ussher – University of Alberta (committee member)	2009
Christopher Mendias (committee member)	2005-2007
Hyun Seok Hwang (committee member)	2002-2007
Elizabeth Wuorinen (committee member)	2000-2007
Katrina Fogleman (preliminary exam committee member)	2003-2004
Angela Smith – University of Guelph (committee member)	2006
Gregory Steinberg – University of Guelph (committee member)	2002

Post-doctoral Fellows

Jenna Gillen	2016-
Lisa Guth, PhD	2014-
Minghua Li, PhD	2007-2010
Ashraf Gorgey, PhD	2006-2008
Matthew Harber PhD.	2003-2005

Dr. Gorgey is an Assistant Professor at Virginia Commonwealth University
Dr. Harber is an Associate Professor at Ball State University

MD Fellows

Naila Goldenberg, MD	2004-2007

Dr. Goldenberg is the Associate Medical Director of The Cholesterol and Metabolism Center – University of Cincinnati

Master's students

Haojia (Julie) Jing	2016-
Fei Yuan	2016-
Mark Karam	2014-2015
Cara Shrivastava	2005-2007
Jingwei Miao	2005-2005
Brandon Snead	2004-2007
David Morris	2004-2005
Sungha Kim	2002-2003
Amy Kaufman	2001-2003
Christopher Song, MS	2001-2002
Elaine Tan, MS	2001-2002
Amanda Fox, MS (Thesis)	2000-2002
Aileen Schiller, MS	2000-2002
Jennifer Graf, MS	2000-2002
Kristen Farrell, MS	2000-2002
Sheryl Hansen Smith, MS	2000-2001
Justin Keenan – RMIT Australia (Thesis committee member)	2001

Undergraduate students

Konstantinos Karabetsos	2015-
Harkirat Jawanda	2014-
Abigail Wang	2013-
Stephen Doll	2012-2014
Sachi Gianchandani	2011-2014
Doug Yang	2011
Jamie Klein	2010-2012
Allison Everett	2008-2102
Ellen Railsback	2008-2010
Chris Paran	2007-2009
Kristin Thomas	2006-2009
Kevin Weiss	2008
Dan Faden	2003-2006
Audie Veloria	2004-2005
Jack Zuckerman	2004-2005
David Remias	2003-2004
Michele Emory	2003-2004
Kevin Jamil	2003-2004
Andrew Lockton	2003-2004
Peter Trzos	2003-2004
Jill Cook	2002-2003
Sara Cook	2000-2003
Elizabeth Heyn	2002-2003
Jonathan Gifford	2002-2003
Samantha Kanarek	2001-2002
Matthew Buczynski	2001-2002
Kathy Haley	2001-2002

SERVICE

INVITED GRANT REVIEWER

1. NIH - Clinical and Integrative Diabetes and Obesity (CIDO) study section	2011-2012
2. National Science Foundation (Ad hoc reviewer)	2007
3. Clinical and Translational Science Award pilot grants	2007, 2009
4. Natural Science and Engineering Research Council of Canada	2003, 2005, 2008
5. Veteran's Administration Grants	2005

INVITED REVIEWER FOR PROFESSIONAL JOURNALS

American Journal of Clinical Nutrition
American Journal of Physiology
Applied Physiology, Nutrition and Metabolism
British Journal of Nutrition
Cell Metabolism
Diabetes
Exercise and Sport Science Reviews
Experimental Physiology
International Journal of Sports Nutrition and Exercise Metabolism
Journal of Applied Physiology
Journal of the American Gerontology Society
Journal of Clinical Endocrinology and Metabolism
Journal of Clinical Investigation
Journal of Gerontology
Journal of Physiology
Medicine and Science in Sport and Exercise
Metabolism
Obesity
Obesity Research

OTHER PROFESSIONAL SERVICE

KINESIOLOGY SERVICE

1. Chair of search committee for 2 new faculty hires in Exercise Physiology	2015-2016
2. Kinesiology Search Committee member for Senior Movement Science Faculty	2014-2015
3. Kinesiology Mentor for Junior Faculty (Rebecca Hasson)	2012-
4. Chair of search committee for new faculty hire in Exercise Physiology	2011
5. Kinesiology Mentor for Junior Faculty (Steve Broglio)	2011-2013
6. Director of the Michigan "Physical Activity and Nutrition" Seminar Series	2010-2011
7. Kinesiology Mentor for Junior Faculty (Pete Bodary)	2007-2013
8. University of Michigan - Kinesiology – Executive Committee member	2006-2011, 2013-2015
9. Movement Science Department Chair	2007-2009
10. Search Committee Member (Motor Control – Assistant Professor)	2009-2010
11. Search Committee Member (Bickner Endowed Chair in Kinesiology)	2007-2008
12. Search Committee Member (Exercise Physiology – Assistant Professor)	2006-2007
13. Kinesiology Salary Equity Committee	2006-2007
14. University of Michigan Kinesiology Building committee member	2002-2005, 2011-2015
15. Director of the University of Michigan - Center for Exercise Research (CXR)	2001-2004, 2011-2013

UNIVERSITY SERVICE

1. Steering Committee member of the UM Momentum Venter (Child Obesity Center)	2013-
2. Advisory Committee on University of Michigan Recreational Sports	2013-
3. Search Committee Member on 2 faculty searches (School of Public Health)	2012-
4. Core-Director, Michigan Nutrition and Obesity Research Center ("Human Phenotyping Core")	2010-
5. Rackham Graduate School Pre-doctoral Fellowship Review Selection committee	2010-
6. Rackham Graduate School International Student Fellowship Selection committee	2010-
7. Nutrition and Obesity Research Center – "Human Phenotyping Core" Director	2010-
8. Michigan Metabolomics and Obesity Center – "Human Phenotyping Core" Director	2006-
9. Michigan Metabolomics and Obesity Center – Advisory Board member	2005-
10. Exercise consultant to the Michigan Clinical Research Unit	2002-

PROFESSIONAL SERVICE OUTSIDE THE UNIVERSITY OF MICHIGAN

1. International Biology of Exercise – Steering committee	2015-
2. American Diabetes Association – Human metabolism symposia steering committee	2015-
3. American Diabetes Association – Exercise symposia steering committee	2013-2014
4. Associate Editor for *Applied Physiology, Nutrition and Metabolism*	2006-
5. Associate Editor for the *Canadian Journal of Applied Physiology*	2001-2006
6. Grant Reviewer (see details above)	
7. Reviewer for Professional Journals (see details above)	