

CURRICULUM VITAE

Jeffrey F. Horowitz, PhD

PERSONAL INFORMATION

Address: University of Michigan
Division of Kinesiology
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Ann Arbor, MI 48109-2214

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PRESENT POSITION

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

EDUCATION

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

PROFESSIONAL EXPERIENCE

Research Instructor in Medicine – Division of Gastroenterology 1999-2000
Washington University School of Medicine, St. Louis, MO
Assistant Professor - Division of Kinesiology 2000-2006
The University of Michigan, Ann Arbor, MI

POST-DOCTORAL TRAINING

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

TEACHING EXPERIENCE

Teaching assistant instructor: Department of Kinesiology 1989-1995
and Health Education - The University of Texas at Austin
Lecturer: Program in Physical Therapy 1998, 2000
Washington University School of Medicine
Assistant Professor: University of Michigan, Kinesiology 2000-2006

PROFESSIONAL ORGANIZATIONS

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

HONORS

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

GRANTS

ACTIVE SUPPORT

Role: PI

Source: National Institutes of Health (R01 DK071955)

Title of Project: Growth hormone as a determinant of weight regulation

Major Goals: Determine the impact of growth hormone 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 - 8/31/10

Annual Direct Cost: \$265,000/yr

Percent Effort: 35%

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 - 4/30/10

Annual Direct Costs: \$220,000/yr

Percent Effort: 10%

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: Co-I (PI: Ariel Barkan, MD)

Source: Genentech, Inc.

Title of Project: Defining growth hormone deficiency in adults

Major Goals: Lipolytic rate, protein synthesis and degradation, glucose production) will be assessed during step-wise reduction in GH output using a specific competitive GHRH antagonist.

Dates of Project: 10/1/05-9/30/07

Annual Direct Costs: \$50,000/yr

Percent Effort: 0%

PREVIOUS GRANT AWARDS

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%

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 the clearance rate of triglycerides 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%

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)

INVITED REVIEWER FOR PROFESSIONAL JOURNALS

American Journal of Clinical Nutrition

American Journal of Physiology

Applied Physiology, Nutrition and Metabolism

British Journal of Nutrition

Diabetes

Exercise and Sport Science Reviews

International Journal of Sports Nutrition and Exercise Metabolism

Journal of Applied Physiology

Journal of the American Gerontology Society

Journal of Clinical Investigation

Journal of Gerontology

Journal of Physiology

Medicine and Science in Sport and Exercise

Obesity Research

PROFESSIONAL SERVICE

1. Associate Editor for *Applied Physiology, Nutrition and Metabolism*

2. Michigan Movement Science Department Chair	2007-
3. Michigan Metabolomics and Obesity Center – “Human Phenotyping Core” Director	2006-
4. Michigan Metabolomics and Obesity Center – Advisory Board member	2005-
5. University of Michigan Kinesiology – Executive Committee member	2006-
6. Exercise consultant to the Michigan Clinical Research Unit	2002-
7. University of Michigan Kinesiology Building committee member	2002-2005
8. Associate Editor for the <i>Canadian Journal of Applied Physiology</i>	2001 – 2006
9. Director of the University of Michigan - Center for Exercise Research (CXR)	2001 – 2004

COURSES TAUGHT AT THE UNIVERSITY OF MICHIGAN

1. MOVESCI 340 – Exercise Physiology
2. KINESLGY 511 – Experimental Course in Exercise Physiology
3. KINESLGY 540 – Advanced Exercise Physiology
4. KINESLGY 541 – Experiments in Human Exercise Physiology
5. KINESLGY 572 – Fitness Evaluation and Exercise Prescription
6. KINESLGY 600 - Graduate Seminar in Movement Science

STUDENT MENTORING

Post-doctoral Fellows

Matthew Harber PhD. 2003-2005
(Dr. Harber is currently an Assistant Professor at Ball State University)

MD Fellows

Naila Goldenberg, MD 2004-2007

Doctoral students

Sean Newsom 2007-
 Andrea Cornford (major advisor) 2005-
 *Simon Schenk, (major advisor) 2002-2006
 †Nicolas Knuth, (major advisor) 2001-2007
 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, Ontario, Canada 2006
 (Dissertation committee member)
 Gregory Steinberg – University of Guelph, Ontario, Canada 2002
 (Dissertation committee member)

*Dr. Schenk is currently a post-doctoral fellow in Dr. J Olefsky’s laboratory at The University of California-San Diego

†Dr. Knuth is currently a post-doctoral fellow in Dr. Kevin Hall’s laboratory at the National Institutes of Health

Master’s students

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

Kevin Weiss	2008-
Chris Paran	2007-
Kristin Thomas	2006-
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

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 PPAR α 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 somatotrophic 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.
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.
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.
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.* In Press.

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.

ABSTRACTS

1. Horowitz JF, KM Fitzsimmons, and TW Balon. Effects of carbohydrate loading and exercise on muscle girth. *Med. Sci. Sports Exerc.* 21(2):S58, 1989.
2. Horowitz JF, LS Sidossis, and EF Coyle. Muscle fiber type influences efficiency and performance. *Med. Sci. Sports Exerc.* 23(4):S92, 1991.
3. Sidossis LS, JF Horowitz, and EF Coyle. The effects of load and velocity of contraction on gross and delta efficiency. *Med. Sci. Sports Exerc.* 24(5): S172, 1992.
4. Coyle EF, LS Sidossis, and JF Horowitz. Muscular efficiency is related to muscle fiber composition. *Med. Sci. Sports Exerc.* 23(4): S92, 1991.
5. Romijn JA, EF Coyle, L Sidossis, A Gastaldelli, JF Horowitz, E Endert, and RR Wolfe. Effects of exercise intensity on fat metabolism. *Med. Sci. Sports Exerc.* 24(5): S72, 1992.
6. Horowitz JF, and EF Coyle. Metabolic effects of pre-exercise meals containing various carbohydrates and fat. *Med. Sci. Sports Exerc.* 24(5): S121, 1992.
7. Horowitz JF, R Mora-Rodriguez, and EF Coyle. The effect of pre-exercise medium-chain triglyceride ingestion on muscle glycogen utilization during high intensity exercise. *Med. Sci. Sports Exerc.* 27(5):S203, 1995.
8. Horowitz JF, R Mora-Rodriguez, LO Byerley, and EF Coyle. Lipolytic suppression following carbohydrate ingestion limits fat oxidation during exercise. *Med. Sci. Sports Exerc.* 28(5):S74, 1996.
9. Horowitz JF, R Mora-Rodriguez, LO Byerley, and EF Coyle. Carbohydrate ingestion during exercise reduces fat oxidation when glucose uptake increases. *FASEB J.* 11(3):834, 1997.
10. Satyanarayana R, BW Patterson, DC Connell, TW Lissos, JF Horowitz, F Jahoor, and S Klein. Effect of protein intake on whole body, skeletal muscle, and hepatic protein metabolism in patients with cirrhosis. *Gastroenterology*, 1997.
11. Horowitz JF, SW Coppack, D Paramore, P Cryer, S Klein. Effect of short-term fasting on lipid metabolism in lean and obese women. *Obesity J.*, 1997.
12. Horowitz JF, RJ Braudy, CL Inman, WH Martin, and S Klein. Lipolytic and adipose tissue blood flow sensitivity to epinephrine before and after endurance training. *Med. Sci. Sports Exerc.* 31(5):S340, 1999.
13. Horowitz JF, TC Leone, DP Kelly, S Klein. Endurance exercise training alters skeletal muscle peroxisome proliferator-activated receptor α (PPAR α) protein levels in parallel with an increase in fat oxidation. *FASEB J.* 13(4):A419, 1999.
14. Mittendorfer B, JF Horowitz, S Klein. Effect of gender on lipid metabolism during endurance exercise. *FASEB J.* 14 (addendum):10, 2000

15. Horowitz JF, TC Leone, DP Kelly, S Klein. Effect of endurance training on whole-body, adipose tissue, and skeletal muscle lipid metabolism. *FASEB J.* 14(4):A614, 2000.
16. Horowitz JF Regulation of lipid mobilization in Obesity. *7th Annual European Congress of Sports Science*, 2002.
17. 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.
18. 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
19. Knuth ND, SM Cook, and JF Horowitz. Determining the metabolic fate of ingested lipids. *FASEB J.* 2003
20. 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
21. 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.
22. 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
23. 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
24. 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
25. 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
26. 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.
27. 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.
28. 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.
29. 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
30. 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.
31. Schenk, S, Goldenberg, N, and JF Horowitz. A Single Session of Endurance Exercise Protects Against Fatty-Acid Induced Insulin Resistance. American College of Sports Medicine (ACSM) – Denver, CO, June 2006

32. 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
33. 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.
34. 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.
35. 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.
36. 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.
37. 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
38. 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.
39. 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.