

**Elizabeth Jane Parks, Ph.D.**

**FAHA**, Fellow, American Heart Association, **FTOS**, Fellow, The Obesity Society

University of Missouri-Columbia School of Medicine  
One Hospital Drive, Room NW406, Columbia, MO, 65212  
Phone: (573) 882-5864  
Email: parksej@missouri.edu  
ORCHID ID: 0000-0001-5681-1097  
Scopus: #7006708796  
CV current as of January 27, 2020



**EDUCATION**

1995 PhD Nutritional Biochemistry, University of California-Davis  
1987 BS Exercise Physiology and Education, University of Wisconsin-Madison

**PROFESSIONAL EXPERIENCE**

**Academic Positions**

2013-present - Professor (tenure), Department of Nutrition and Exercise Physiology,  
University of Missouri-Columbia, School of Medicine  
- Professor, Division of Gastroenterology and Hepatology  
- Associate Director of the Clinical Research Center, University of Missouri  
Institute for Clinical and Translational Science (iCATS)  
- Adjunct Professor, Division of Endocrinology, Diabetes, and Metabolism

2005-2013 Associate Professor (tenure), Clinical Nutrition, UT Southwestern Medical  
Center, Center for Human Nutrition and Department of Internal Medicine

2005 Associate Professor (tenure), University of Minnesota -Twin Cities  
Department of Food Science and Nutrition

2002 Assistant Professor, University of Minnesota -Twin Cities  
Department of Medicine, Division of Endocrinology and Diabetes

1999 Assistant Professor, University of Minnesota -Twin Cities  
Department of Food Science and Nutrition

**Scientific Training**

1995-1998 Postdoctoral Fellow, UC-Berkeley and UC-San Francisco  
Scientific Advisor/Mentor: Marc K. Hellerstein, MD, PhD

1991-1995 Graduate Student, University of California-Davis, Department of Nutrition  
Scientific Advisor/Mentor: Barbara O. Schneeman, PhD

### **Scientific Training continued**

- 1989-1991 Research Assistant, University of Washington in Seattle, Department of Medicine, Division of Pathology. Supervisors: Russell Ross, PhD and B. Greg Brown, MD, PhD
- 1987-1989 Research Coordinator, University of Wisconsin Hospitals and Clinics, Department of Medicine. Supervisor: Laurence DeBoer, MD

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### **RESEARCH INTERESTS**

- Nonalcoholic fatty liver disease, liver inflammation, and postprandial metabolism
- Mathematical modeling of non-steady state kinetics in metabolism
- Cephalic phase of food intake and sensory effects on absorption of lipids
- Effect of dietary macronutrients on the development of obesity-related disorders

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### **AWARDS AND DISTINCTIONS**

- Participant in the Executive Leadership in Academic Medicine Program (ELAM®), Drexel University (2019-2020)
- Ninth Annual Barnstable Brown Diabetes and Obesity Research Day Lectureship, University of Kentucky School of Medicine (2019)
- William Hansel Visiting Scientist Lecturer, Pennington Biomedical Research Center, (2019)
- Daryl Granner Lectureship, Vanderbilt University, Diabetes Research and Training Center (2018)
- Co-Director for the NIH-Sponsored Course, "Isotope tracers in metabolic research: Principles and Practice of Kinetic Analysis" (2018-)
- 57th annual Max Miller Lecture in Diabetes Research, Annual Meeting of the Central Society for Clinical and Translational Research and Midwest Section of the American Federation for Medical Research (2018)
- Designee, Research Exemplar, Washington University School of Medicine, an NIH-sponsored Program for Professionalism and Integrity in Research (2017)
- Robert I. Levy Award, Kinetics and Metabolism Society, associated with the Arteriosclerosis, Thrombosis, and Vascular Biology Council, AHA (2016)
- MU-School of Medicine Award for Excellence in Junior Faculty Research Mentoring (2015)
- Maxine Seabaugh Schade Faculty Scholar (2014)
- Keynote Lecture, Stable Isotope Symposium, sponsored by Washington University at FASEB (2014)
- UT Southwestern Established Investigator Award (2009)
- Fellow, The Obesity Society (TOS, 2007)
- McFarland Teaching Award, University of Minnesota-Twin Cities (2005)
- Ruth Pike Lectureship, Penn State Department of Nutrition (2002)
- Dannon Nutrition Leadership Institute (2001)
- International Life Sciences Institute Future (Nutrition) Leaders Research Award (2000)
- Participant, University of Minnesota Bush Faculty mentoring program (1999)
- Fellow, The American Heart Association (AHA, 1999)
- AHA Postdoctoral Fellowship (1996) and AHA Predoctoral Fellowship (1993)

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## OVERVIEW OF RESEARCH PROJECTS

A) *Human feeding studies designed to determine the causes of non-alcoholic fatty liver disease (NAFLD) in obesity. We have quantified the extent to which dietary lipids are delivered to the liver and how much dietary carbohydrate is made into liver fat in humans.* These studies have demonstrated for the first time: 1) the flexibility of the healthy human liver in handling changes in the substrates (fat, protein, carbohydrate) that flow to it from fasting to feeding, 2) that insulin-resistant subjects show a high, constant (non-circadian) lipogenic rate from intake of sugars across the day, and 3) that elevations in de novo lipogenesis contribute significantly and distinctly to fatty liver disease regardless of patient sex, age, or ethnic/racial characteristics. Our current R01 investigates the role of liver mitochondria in the regression of NASH by diet and exercise.

B) *Studies of how different dietary sugars contribute to obesity.* After development of a stable isotope approach to track immediate, non-steady state fat synthesis after a meal, we developed a mathematical model to quantitate the potential for fat to be synthesized from fructose, glucose, and sucrose. Studies are performed in humans, baboons, pigs, and mice.

C) *Studies under way to develop methodology to test the impact of excess dietary saturated fatty acids on skeletal muscle and liver metabolism.* Fluxomic methodology has been developed. Cell culture and whole body studies are ongoing. This focus also includes study of the sensory aspects of food and the influence of gut hormones release.

D) *Mouse and primate studies of whole-body cholesterol, fatty acid, and triglyceride turnover.* All isotope flux methods in humans have been translated for use in rodents. Projects encompass development and use of methods to determine the source of tissue lipids in different strains of transgenic mice and the effects of drugs and dietary treatment to alter tissue lipids. Mouse models are used to study how organ fatty acid flux and partitioning impacts the development of diseases associated with diet induced obesity. Primate studies include development of methods to investigate the endocannabinoid system.

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## GRANT SUPPORT

The Parks Laboratory has been continuously funded since 1999. To date, E. Parks has completed single-PI projects with over \$13 million in expenditures. Her current research activity as PI and co-investigator is on projects supported by \$19,152,598.

### **Active Research Support**

- 1) NIH R01 DK113701 E. Parks, MPI 05/01/17 - 04/30/22  
Title: *"Nutrient overload, insulin resistance, and hepatic mitochondrial dysfunction"*  
Role: Multi-PI (14% effort) with JA Ibdah and RS Rector
- 2) NIH R25 DK111362 E. Parks, MPI 09/13/18 - 08/31/23  
Title: *"Isotopic tracers in metabolic research: Principles and practices of kinetic analysis"*  
Role: Multi-PI (9% effort) with Owen McGuinness, Vanderbilt University
- 3) Weill-Cornell Medical College #1804019121 E. Parks, PI 09/01/18 - 08/31/20  
Title: *"Fructose induced hepatic de novo lipogenesis in adolescents with obesity"*  
Role: PI (5% effort) with collaborator Dr. Lisa Hudgins, Weill-Cornell Medical College
- 4) NIH 17-DK-0013 and 13-DK-0057 E. Parks, PI 01/10/17 - 01/09/20

Title: *"NIH intramural collaboration to measure de novo lipogenesis in human studies"*  
Role: Subcontract (10% effort)

- 5) NIH R01 DK101513 J. A. Kanaley, PI 04/01/16 - 03/31/20  
Title: *"Dawn Phenomena: Lowering impaired fasting glucose levels with exercise (LIFE)"*  
Role: Co-Investigator (7% effort)
- 6) NIH R01 HL137769 J. Padilla, PI 09/01/17 - 08/31/22  
Title: *"Restoring vasodilator actions of insulin in patients with type 2 diabetes"*  
Role: Co-Investigator (8% effort)
- 7) Doris Duke Foundation M. Cree Green, PI 07/01/18 - 06/30/21  
Title: *"Use of essential amino acid supplementation to decrease metabolic disease in high risk obese girls with polycystic ovarian syndrome"*  
Role: Collaborator (5% effort)
- 8) NIH R21 DK116081 C. Manrique, PI 09/18/18 - 08/31/21  
Title: *"Sex related differences in arterial stiffness in type 2 diabetes: role of uric acid"*  
Role: Co-Investigator (10% effort)
- 9) NIH R01 HL136746 W. Fay, PI 07/01/18 - 04/30/22  
Title: *"Role of plasminogen activator inhibitor1 in adipose tissue dysfunction and atherosclerosis of metabolic syndrome"*  
Role: Co-investigator (5% effort)
- 10) NIH R01 HL142770 C. Manrique, PI 04/01/19 - 03/31/24  
Title: *"Estrogen receptor alpha signaling in endothelial cells exacerbates arterial stiffening via upregulation of the epithelial sodium channel in insulin resistant females"*  
Role: Collaborator (10% effort)
- 11) NIH R01 DK120612 M. Cree Green, PI 08/31/19 - 07/31/24  
Title: *"Impact of GLP-1 on hepatic fat and energy utilization in obese girls with polycystic ovarian syndrome"*  
Role: Collaborator (5% effort)
- 12) JDRF/2-SRA-2020-884-M-B N. Santoro (Yale Univ.) 12/01/19 - 11/30/20  
Title: *"Pathogenesis of the cardiometabolic risk in youth with type 1 diabetes"*  
Role: Consultant (2% effort)

### **Completed Research Support**

#### **Completed Extramural Projects**

NIH K23 DK107871 M. Cree Green, PI (Univ. of Colorado) 10/01/15 - 09/30/19  
Title: *"Influence of peripheral insulin resistance and hepatic lipogenesis on IHTG in obese PCOS girls"*  
Role: Mentor

Industry Award C. Manrique, E. Parks, Co-PIs 02/01/17 - 01/31/18

Title: *"Evaluation of TVB-2640, a FASN Inhibitor, to reduce de novo lipogenesis in subjects with characteristics of the metabolic syndrome"*

Role: Co-Principal Investigator

Industry Award

E. Parks, PI

05/01/16 - 12/31/17

Title: *"A short term evaluation of a structured weight loss plan in overweight and obese adults"*

Role: Principal Investigator

NIH R21 DK105368

J. Padilla, PI

09/01/15 - 08/31/17

Title: *"Targeting endoplasmic reticulum stress to correct vascular insulin resistance and glycemic dysregulation in diabetes"*

Role: Co-Investigator

NIH R03 DK097463

M. Ramos-Roman, PI

09/19/13 - 05/31/16

Title: *"Effect of lactation on ectopic lipid after gestational diabetes"*

Role: Collaborator

ADA Translational Science Award

M. Ramos-Roman, PI

01/01/14 - 12/13/16

Title: *"Lactation: An intervention to modify ectopic lipid and insulin resistance after gestational diabetes"*

Role: Collaborator/Mentor

American Diabetes Association

E. Parks, PI

01/02/13 - 12/31/16

Title: *"Insulin resistance in the control of intestinal lipid metabolism"*

Role: Principal Investigator

Industry Award #231-00

E. Parks, PI

06/01/12 - 12/31/16

Title: *"Postprandial metabolism assessed using an oral stable isotope in healthy subjects"*

Role: Principal Investigator

VA Hospital Research Award

A. Kamat, PI

01/01/13 - 12/31/16

Title: *"Lipid metabolism and steatosis in liver"*

Consultation on the grant of Dr. Kamat, Assistant Professor, Department of Medicine-Geriatrics, Audie Murphy Veterans Administration Hospital, San Antonio, TX.

Role: Mentor

NIH R01 DK081187

E. Parks, PI

10/01/07 – 06/30/13

Title: *"Dietary macronutrient composition, weight loss, and liver substrate metabolism"*

Role: Principal Investigator

Supplement to RL1 DK081187

E. Parks, PI

09/01/11 – 09/30/12

Title: *"Coordination of MRS and isotopic methods to assess metabolism"*

Role: Principal Investigator

Supplement to RL1 DK081187

E. Parks, PI

09/01/10 – 08/30/11

Title: *"Additional staff to facilitate conduct of consortium assays"*

Role: Principal Investigator

Yale University

N. Santoro, PI

02/14/12 – 10/01/14

Title: *"Hepatic de novo lipogenesis in youth: Role of the GCKR rs1260326 variant"*  
Role: Collaborator

NIH R01 DK054387 A. Garg, PI 04/01/07 – 03/31/13

Title: *"Genetic and metabolic basis of familial lipodystrophies"*

Studies of a mouse model to investigate liver lipid metabolism in lipodystrophy.

Role: Co-Investigator

AHA Postdoctoral Fellowship Application J. Trombold, Fellow 01/18/13 –

Title: *"Activity acquired vs inherent fitness and metabolic flexibility"*

Awarded, but grant declined due to availability of alternate funding.

Role: Mentor

Industry Grant #700791 E. Parks, PI 02/21/07 – 12/20/12

Title: *"Pharmacological blockage of a selective cannabinoid-1 receptor in a non-human primate model"*

Role: Principal Investigator

NIH R01 DK045294 R. Mattes, PI 04/01/04 – 03/31/09

Title: *"Hedonics and dietary intake of fat"*

Subcontract under Richard D. Mattes, PhD, MPH, Department of Foods and Nutrition, Purdue University.

Role: Co-Investigator

AHA, Scientist Development Grant E. Parks, PI 01/01/02 – 12/21/05

Title: *"Lipid turnover in a mouse model of familial combined hyperlipidemia"*

Role: Principal Investigator

NIH R03 DK058286 E. Parks, PI 08/01/01 – 12/31/04

Title: *"Fatty acid turnover in non-alcoholic steatohepatitis (NASH)"*

Role: Principal Investigator

ILSI Future Leaders Award E. Parks, PI 01/01/02 – 12/31/03

Title: *"Effects of standard meal feeding versus enteral infusion on de novo lipogenesis"*

Role: Principal Investigator

Cargill Higher Education Grant E. Parks, PI 09/23/03 – 09/22/04

Title: *"Measurement of dietary sugars to fat synthesis in a meal"*

Role: Principal Investigator

Allen Foundation, Midland, MI E. Parks, PI 06/01/99 – 01/31/02

Title: *"Quantification of fatty acid and triglyceride flux"*

Role: Principal Investigator

International Life Sciences Institute E. Parks, PI 10/01/99 – 09/30/01

Title: *"Quantification of fatty acid and triglyceride flux"*

Role: Principal Investigator

## **Completed Intramural Projects**

MU Department of Medicine R&D Grant E. Parks, PI 06/01/16 - 12/31/19  
Title: *"Sex differences in the metabolic effects of uric acid reduction: A pilot study"*  
Role: Principal Investigator

MU Research Council E. Parks, PI 06/01/16 - 12/31/19  
Title: *"Sex differences in the metabolic effects of uric acid"*  
Role: Principal Investigator

University of Minnesota (UMN) Grant-In-Aid E. Parks, PI 05/01/00 – 04/31/01  
Title: *"Sources of VLDL-triglyceride secreted during fasted/fed-states"*  
Role: Principal Investigator

Minnesota Obesity Center E. Parks, PI 09/30/00 – 08/31/01  
Title: *"Method development for the quantitation of glucose and fatty acid turnover in rodents"*  
Role: Principal Investigator

Minnesota Medical Foundation E. Parks, PI 02/01/04 – 01/31/05  
Title: *"Proposal for the simultaneous measurements of metabolites"*  
Role: Principal Investigator

Grant-in-Aid E. Parks, PI 05/01/03 – 04/31/04  
Title: *"Shared equipment grant"*  
Role: Co-Investigator

University of Minnesota Undergraduate Res. Grants E. Parks, PI 05/01/01 – 08/31/03  
Role: Mentor to undergraduates performing research in the laboratory

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## **PUBLICATIONS**

Total citations of 66 publications: 8566  
*h* index: 37

### **Dissertation**

Parks EJ: "Relationship between the physical properties of low-density lipoproteins and particle chemical and oxidative susceptibility."  
Doctoral Thesis, University of California, Davis, 1999

### **Refereed Publications**

\* Designates co-first authorship

66. Anguah K, Syed-Abdul M, Hu Q, Jacome-Sosa M, Heimowitz C, Cox V, Parks EJ: Changes in food cravings and eating behavior after a dietary carbohydrate restriction intervention trial. [PMID: 31878131]. *Nutrients*, 12(1):E52, 2019
65. Syed-Abdul MM, Parks EJ, Gaballah AH, Bingham K, Hammoud GM, Kemble G, Buckley D, McCulloch W, Manrique CM: First-in-class fatty acid synthase inhibitor TVB-2640 reduces hepatic de novo lipogenesis in males with metabolic abnormalities. [PMID: 31630414]. *Hepatology*, doi: 10.1002/hep.31000, 2019

64. \*Syed-Abdul M, \*Hu Q, Jacome-Sosa M, Padilla J, Manrique-Acevedo C, Heimowitz C, Parks EJ: Effect of carbohydrate restriction-induced weight loss on aortic pulse wave velocity in overweight men and women. [PMID: 29746789] *Applied Physiology, Nutrition, and Metabolism*, 43(12):1247-1256, 2018
63. Winn NC, Ying L, Rector RS, Parks EJ, Ibdah JA, Kanaley JA: Energy-matched moderate and high intensity exercise training improves nonalcoholic fatty liver disease risk independent of changes in body mass or abdominal adiposity - a randomized trial. [PMID: 28941598] *Metabolism*, 78:128-140, 2018
62. Goffredo M, Mass K, Parks EJ, Wagner DA, McClure EA, Graf J, Savoye M, Pierpont B, Cline G, Santoro N: Role of gut microbiota and short chain fatty acids in modulating energy harvest and fat partitioning in youth. [PMID: 27648960] *J Clin Endocrinol Metab*, 101(11):4367-4376, 2016
61. Li X, Parks EJ, McLaren DG, Lambert JE, Cardasis HL, Chappell DL, Thomas McAvoy T, Gino Salituro G, Achilles Alon A, Justin Dennie J, Chakravarthy M, Shankar SS, Laterza OF, Lassman ME: An LC-MRM method for measuring intestinal triglyceride assembly using an oral stable isotope-labeled fat challenge. [PMID: 27225968] *Bioanalysis*, 8(12):1265-1277, 2016
60. Satapati S, Kucejova B, Duarte JAG, Fletcher JA, Reynolds L, Sunny NE, He T, Livingston K, Fu X, Merritt ME, Sherry AD, Malloy CR, Shelton JM, Lambert JE, Parks EJ, Corbin I, Magnuson MA, Browning JD, Burgess SC: Mitochondrial anaplerosis and oxidative metabolism mediate oxidative stress and inflammation in fatty liver disease. [PMID: 26571396] *J of Clinical Investigation*, 125(12):4447-4462, 2015
59. Santoro N, Caprio S, Pierpont B, Van Name M, Savoye M, Parks EJ: Hepatic de novo lipogenesis in youth is modulated by a common variant in the GCKR gene. [PMID: 26043229]. *J Clinical Endocrinology and Metabolism*, 100(8):E1125-E1132, 2015
58. Aroor A, Hababi J, Ford D, Nistala R, Lastra G, Manrique C, Dunham M, Ford K, Thyfault J, Parks E, Sowers J, Rector R: Dipeptidyl peptidase-4 inhibition ameliorates western diet-induced hepatic steatosis and insulin resistance through hepatic lipid remodeling and modulation of hepatic mitochondrial function. [PMID: 2560580]. *Diabetes*, 64(6):1988-2001, 2015
57. Lee, JJ\*, Lambert JE\*, Hovhannisyan Y, Ramos-Roman MA, Trombold JR, Wagner, DA, Parks EJ: Palmitoleic acid is elevated in fatty liver disease and reflects hepatic lipogenesis. [PMID: 25527748]. *Amer J Clinical Nutrition*, 101(1):34-43, 2015
56. Lambert JE, Ramos-Roman MA, Browning JD, Parks EJ: Increased de novo lipogenesis is a distinctive characteristic of individuals with nonalcoholic fatty liver disease. [PMID: 24316260]. *Gastroenterology*, 146(3):726-735, 2014
55. Vaidyanathan V, Bastarrachea RA, Higgins PB, Voruganti VS, Kamath S, DiPatrizio NV, Piomelli D, Comuzzie AG, Parks EJ: Selective cannabinoid-1 receptor blockade significantly benefits fatty acid and triglyceride metabolism in weight-stable nonhuman primates. [PMID: 22761159, PMIC 3468508]. *Amer J Physiol, Endocrinology and Metabolism*, 303(5):E624-634, 2012



54. Ramos-Roman MA, Lapidot SA, Phair RD, Parks EJ: Insulin activation of plasma non-esterified fatty acid uptake in metabolic syndrome. [PMC: 3417322]. *Arteriosclerosis Thrombosis, & Vascular Biology*, 32:1799-1808, 2012
53. Shetty S, Ramos-Roman MA, Cho Y-R, Brown J, Plutzky J, Muise ES, Horton JD, Scherer PE, Parks EJ: Enhanced fatty acid flux triggered by adiponectin over-expression. [PMID: 22045665]. *Endocrinology*, 153(1):113-122, 2012
52. Ramos-Roman MA, Sweetman L, Valdez MJ, Parks EJ: Postprandial changes in plasma acylcarnitine concentrations as markers of fatty acid flux in metabolic syndrome. [PMC3219812]. *Metabolism*, 61(2):202-212, 2012
51. Sunny NE, Parks EJ, Browning JD, Burgess SC: Excessive hepatic mitochondrial TCA cycle and gluconeogenesis in humans with nonalcoholic fatty liver disease. *Cell Metabolism*, 14(6):804-811, 2011
50. Bastarrachea RA, Veron SM, Vaidyanathan V, Garcia-Forey M, Voruganti VS, Higgins PB, Parks EJ: Protocol for the measurement of fatty acid and glycerol turnover in vivo in baboons. [PMID 21415122]. *J Lipid Research*, 52(6):1272-1280, 2011
49. Chavez-Jauregui RN, Mattes RD, Parks EJ: Dynamics of fat absorption and impact of sham feeding on postprandial lipema. [PMC2948783]. *Gastroenterology*, Nov;139(5):1538-1548, 2010
48. Seo J, Fortuno ES, Suh JM, Stenesen D, Tang W, Parks EJ, Adams CM, Townes T, Graff JM: Atf4 regulates obesity, glucose homeostasis, and energy expenditure. [PMID: 19690063]. *Diabetes*, 58:2565-2573, 2009
47. Grefhorst A, Parks EJ: Reduced insulin-mediated inhibition of VLDL secretion upon pharmacological activation of the liver X receptor in mice. [PMID: 19287042]. *J Lipid Research*, 50:1374-1383, 2009
46. Parks EJ, Skogen LA, Timlin MT, Dingfelder CS: Dietary sugars stimulate fatty acid synthesis in adults. [PMC2546703]. *J Nutrition*, 138:1039-1046, 2008
45. Barrows BA, Parks EJ: Contributions of different fatty acid sources to VLDL-triacylglycerol fatty acids in the fasted and fed-states. [PMID: 16449340]. *J Clinical Endocrinology and Metabolism*, 91:1446-1452, 2006
44. Zhu Q, Anderson GW, Mucha GT, Parks EJ, Metkowski JK, Mariash CN: The Spot 14 protein is required for de novo lipid synthesis in the lactating mammary gland. [PMID: 15890771]. *Endocrinology*, 146(8):3343-3350, 2005
43. Timlin MT, Barrows BR, Parks EJ: Increased dietary substrate delivery alters hepatic fatty acid recycling in healthy subjects. [PMID: 16123359]. *Diabetes*, 54(9):2694-2701, 2005
42. Barrows BR, Timlin MT, Parks EJ: Spillover of dietary fatty acids and use of plasma NEFA for the synthesis of VLDL-TAG under two different feeding regimens. [PMID: 16123356]. *Diabetes*, 54(9):2668-2673, 2005
41. Donnelly KL, Smith CI, Schwarzenberg SJ, Jessurun J, Boldt MD, Parks EJ: Sources of fatty acids contributing to hepatic steatosis in nonalcoholic fatty liver disease. [PMC1087172]. *J Clinical Investigation*, 115(5):1343-1351, 2005

40. Parks EJ, Schneider TL, Baar RA: Meal-feeding studies in mice: Effects of different diets on blood lipids and energy expenditure. [PMID: 15766205]. *Comparative Medicine*, 55(1):13-17, 2005
39. Timlin MT, Parks EJ: The temporal pattern of de novo lipogenesis in the postprandial state. [PMID: 15640457]. *Amer J Clinical Nutrition*, 81(1):35-42, 2005
38. Truett GE, Parks EJ: Ghrelin: It's role in energy balance. *J of Nutr*, 135(5):1313, 2005
37. Baar RA, Dingfelder CS, Smith LA, Bernlohr DA, Wu C, Lange AJ, Parks EJ: Investigation of in vivo fatty acid metabolism in AFABP/aP2<sup>-/-</sup> mice. [PMID: 15367400]. *Amer J Physiology Endocrinology and Metabolism*, 288:E187-E193, 2004
36. Donnelly KL, Margosian MR, Sheth SS, Lusic AJ, Parks EJ: Increased lipogenesis and fatty acid reesterification contribute to hepatic triacylglycerol stores in hyperlipidemic Txnip<sup>-/-</sup> mice. [PMID: 15173414]. *J of Nutrition*, 134(6):1475-1480, 2004
35. Figueroa A, Milla C, Parks EJ, Schwarzenberg SJ, Moran A: Abnormal lipid levels in cystic fibrosis. [PMID: 12036806]. *Amer J Clinical Nutrition*, 75:1005-1011, 2002
34. Parks EJ, Rutledge JC, Davis PA, Hyson DA, Schneeman BO, Kappagoda CT: Predictors of plasma triglyceride elevation in patients participating in a coronary atherosclerosis treatment program. [PMID: 11314287]. *J Cardiopulmonary Rehabilitation*, 21(2):73-79, 2001
33. Parks EJ, Dare D, Frazier KB, Hellerstein MK, Neese RA, Hughes E, Traber MG: Dependence of plasma alpha-tocopherol flux on very low-density triglyceride clearance in humans. [PMID: 11121723]. *Free Rad Biol Med*, 29(11):1151-1159, 2000
32. Parks EJ, Hellerstein MK: Carbohydrate-induced hypertriacylglycerolemia: Historical perspective and review of biological mechanisms. [PMID: 10648253]. *Amer J Clinical Nutrition*; 71:412-433, 2000
31. Parks EJ, Krauss RM, Christiansen MP, Neese RA, Hellerstein MK: Effects of a low-fat diet on VLDL-triglyceride assembly, production and clearance. [PMID: 10525047]. *J Clinical Investigation*, 104(8):1087-1096, 1999
30. Strawford A, Hoh R, Neese RA, Parks EJ, Turner S, Hellerstein MK: Resistance exercise and supraphysiologic androgen therapy in eugonadal men with HIV-related weight loss: a randomized controlled trial. [PMID: 10208143]. *J Amer Med Assoc*, 281(14):1282-1290, 1999
29. Tinker LF, Parks EJ, Behr SR, Schneeman BO, Davis PA: n-3 Fatty acid supplementation in moderately hypertriglyceridemic adults, changes postprandial lipid and apolipoprotein B responses to a standardized test meal. [PMID: 10356076]. *J Nutrition*, 129(6):1126-1134, 1999
28. Parks EJ, German JB, Davis PA, Frankel EN, Kappagoda CT, Rutledge JC, Hyson DA, Schneeman BO: Reduced susceptibility of LDL from patients participating in an intensive atherosclerosis treatment program. [PMID: 9771854]. *Amer J Clinical Nutrition*, 68(4):778-785, 1998
27. Siler SQ, Neese RA, Parks EJ, Hellerstein MK: VLDL-triglyceride production after alcohol ingestion: studies using [2-<sup>13</sup>C] glycerol. [PMID: 9831620]. *J Lipid Research*, 39:2319-2328, 1998

26. Dixon ZR, Burri BJ, Clifford A, Frankel EN, Schneeman BO, Parks EJ, Keim NL, Barbieri T, Wu MM, Fong AKH, Kretsch MJ, Erdman JW, Jr: Effects of carotene-deficient diet on measures of oxidative damage, oxidative susceptibility and superoxide dismutase activity in adult women. [PMID: 7867970]. *Free Radical Biology and Medicine*, 17(6):537-544, 1994
25. Frankel EN, Parks EJ, Xu R, Schneeman BO, Davis PA, German JB: Effect of n-3 fatty acid-rich fish oil supplementation on oxidation of low density lipoproteins. [PMID: 8177016]. *Lipids*, 29(4):233-236, 1994
24. Frankel EN, Kanner J, German JB, Parks E, Kinsella JE: Inhibition of oxidation of human low-density lipoprotein by phenolic substances in red wine. [PMID: 8097009]. *Lancet*, 341:454-457, 1993

### **Review Articles, Book Chapters, Conference Proceedings**

23. Diniz Behn C, Jin ES, Bubar K, Malloy C, Parks EJ, Cree-Green M: Advances in stable isotope tracer methodology Part 1: Hepatic metabolism via isotopomer analysis and postprandial lipolysis modeling. [PMID: 31554675]. *J Investigative Medicine*, 68(1):3-10, 2020
22. Jacome-Sosa M, Parks EJ, Bruno RS, Tasali E, Lewis GF, Schneeman BO, Rains TM: Postprandial metabolism of macronutrients and cardiometabolic risk: Recent developments, emerging concepts and future directions. [PMID: 26980820]. *Advances in Nutrition*, 7(2): 364-374, 2016
21. Laughlin MR, Bantle JP, Havel PJ, Parks EJ, Klurfeld DM, Teff K, Maruvada P: Clinical research strategies for fructose metabolism. [PMID: 24829471]. *Advances in Nutrition*, 5(3):248-259, 2014
20. Jacome-Sosa MM, Parks EJ: Fatty acid sources and their fluxes as they contribute to plasma triglyceride concentrations and fatty liver in humans. [PMID: 24785962] *Current Opinion in Lipidology*, 25:213-220, 2014
19. Hu Q, Parks EJ: "Mechanisms of nonalcoholic fatty liver disease induced by dietary sugars," in Dietary Sugars and Health, Eds MI Goran, L Tappy, and KA Le. ISBN-10: 1466593776. Taylor and Francis Publishers, 2014
18. Lambert JE, Parks EJ: Getting the label in: Practical research strategies for tracing dietary fat. *International J of Obesity*, 2:S43-S50, 2012
17. Lambert JE, Parks EJ: Postprandial metabolism of meal triglyceride in humans. [PMID: 22281699], *Biochim Biophys Acta - Molecular and Cell Biology of Lipids*, 1821(5):721-726, 2012
16. Parks EJ, Hellerstein MK: Recent advances in liver triacylglycerol and fatty acid metabolism using stable isotope labeling techniques. [PMID 16741290]. *J Lipid Research*, 47:1651-1660, 2006
15. Parks EJ, Matthews DE: Using tracers to measure carbohydrate, fat, and amino acid metabolism in humans. 2003 Research Workshop for the American Society for Parenteral and Enteral Nutrition, [PMID: 14763793]. *J Parenteral Enteral Nutr*, Jan-Feb;28(1):38-53, 2004

14. Parks EJ: Changes in fat synthesis influenced by dietary macronutrient content. [PMID: 12133211]. *Proceedings of the Nutrition Society*, 61:1-6, 2002
13. Parks EJ: Dietary carbohydrate's effects on lipogenesis and the relationship of lipogenesis to blood insulin and glucose concentrations. [PMID:12088525]. *British J of Nutr*, 87 (Supple 2):S247-S253, 2002
12. Parks EJ: Recent findings in postprandial research. [PMID: 11602066]. *Current Atherosclerosis Reports*, Nov;3(6):462-470, 2001
11. Parks EJ: "The relationship of the glycemic index to lipogenesis in humans," in Proceedings of the 6<sup>th</sup> (Millenium) Vahouny Conference. Kluwer/Plenum Press, 2003
10. Parks EJ: "Measurement of  $\alpha$ -tocopherol turnover in plasma and in lipoproteins using stable isotopes and gas chromatography/mass spectrometry," in Methods in Molecular Biology. [PMID: 12013768]. 186:209-19, 2002
9. Hellerstein MK, Parks EJ: "Obesity and overweight," in Basic and Clinical Endocrinology, 8<sup>th</sup> Edition, Chapter 21, 2006 (Chapter 21, 7<sup>th</sup> Edition, 2004; Chapter 20, 6<sup>th</sup> Edition, 2001), FS Greenspan and DG Gardner, Editors, published by McGraw-Hill, New York, NY.
8. Parks EJ: Effect of dietary carbohydrate on triglyceride metabolism in humans. [PMID: 11584104]. *J of Nutrition*, 131:2772S-2774S, 2001
7. Parks EJ, Traber MG: Mechanisms of vitamin E regulation in aging. [PMID: 11229354]. *Antioxidants and Redox Signaling*, 2(3):405-412, 2000

### **Editorials and Book Review**

6. Parks EJ, Yki-Järvinen H, Hawkins M: "Out of the frying pan: dietary saturated fat influences nonalcoholic fatty liver disease." Editorial on the article of Hernandez et al, entitled, "Initiation of fat-induced changes in energy metabolism and insulin resistance," *J Clin Investigation*, 127(2): 695-708, 2017.
5. Yarasheski KE, Parks EJ: "How sweet is acute exercise after pure fructose ingestion?" Editorial on the Article of Egli et al entitled, "Exercise performed immediately after fructose ingestion enhances fructose oxidation and suppresses fructose storage," [PMID: 26762370] published in the same volume of *Amer J Clinical Nutrition*, 103(2):301-302, 2016.
4. Parks EJ, McCrory MA: "When to eat and how often?" [PMID:15640452]. *Amer J Clinical Nutrition*, 81(1):3-4, 2005. Editorial on the article of Farshchi et al, "Beneficial metabolic effects of regular meal frequency on dietary thermogenesis, insulin sensitivity and fasting lipid profiles in obese women," published in the same volume of *Amer J Clinical Nutrition*, 81(1);16-24, 2005.
3. Parks EJ: "A targeted goal for energy-restricted diets in the management of coronary risk?" *Amer J Clinical Nutrition*; 73:147-8, 2001. Editorial on the article of Raeini-Sarjaz et al, "Comparison of the effect of dietary fat restriction compared with that of energy restriction on human lipid metabolism," published in the same volume of *Amer J Clinical Nutrition*, 73(2):262-267, 2001.

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1. *Lipoprotein Protocols*, Edited by JM Ordovas, published by Humana Press, Inc., Totowa, NJ. Reviewed by EJ Parks in *Amer J Clinical Nutrition*, 69(5):1020-1021, 1999.

### **Selected Abstracts and Meeting Presentations**

- Syed-Abdul MM, Moore MP, Wheeler A, Ganga RR, Diaz-Arias A, Rector RS, Ibdah JI, Parks EJ: Contribution of de novo lipogenesis (DNL) in progression of nonalcoholic fatty liver disease. 2020 Keystone Meeting, "Obesity and NAFLD: Mechanisms and Therapeutics," Banff Springs, Alberta, February 23-27, 2020
- Syed-Abdul MM, Moore MP, Wheeler A, Ganga RR, Diaz-Arias A, Rector RS, Ibdah JA, Parks EJ: A case study demonstrating the impact of metabolic surgery on liver disease. The Missouri Physiological Society Annual Meeting, University of Missouri. Abstract #8. Oct. 26, 2019.
- Mucinski J, Syed-Abdul MM, Garrett T, Parks EJ. Very low-density lipoprotein ceramide and hepatic lipid accumulation. American Diabetes Association, San Francisco; 2019. Poster #: 2019-A-6708-Diabetes
- M Naseer, A Al Juboori, A Diaz-Arias, N Le, N Suttmoeller, M Syed-Abdul, JB Pitt, N Spencer, A Wheeler, GM Hammoud, RS Rector, EJ Parks, JA Ibdah: Prevalence of hepatic steatosis and fibrosis in patients undergoing bariatric surgery. Poster #T-P-LB-3694, presented at Obesity Week, November 15, 2018, Nashville, TN
- A Al Juboori, A Diaz-Arias, M Naseer, N Le, M Syed-Abdul, G Petroski, JB Pitt, N Spencer, G Hammoud, RS Rector, EJ Parks, JA Ibdah: The utility of liver elastography in evaluation of liver fibrosis in obese patients undergoing bariatric surgery. Poster presented at The Liver Meeting 2018 in San Francisco, CA. *Hepatology*, Supplement, 68:975A, 2018
- MM Syed-Abdul, EJ Parks, K Bingham, N Le, GM Hammoud, AH Gaballah, G Kemble, D Buckley, W McCulloch, CM Manrique: Progressive reductions in hepatic DNL with increasing doses of TVB-2640, a first-in-class pharmacologic inhibitor of FASN. 2018 Keystone Meeting, "Organ Crosstalk in Obesity and NAFLD," Keystone, Colorado, January 22-26, 2018
- Syed-Abdul MM, Le NT, Jacome-Sosa M, Hu Q, Oxler BM, Bingham K, Arreola R, Al Juboori AM, Gaballah AH, Bartholow BD, Ibdah JA, Parks EJ. The Tailgate Study: A pilot study measuring the Impact of food and alcohol intake on whole-body and liver metabolism. *The FASEB Journal*, 32 (1 supplement), Abstract # 760.6, 2018
- Parks EJ, Manrique CM, Syed-Abdul MM, Gaballah AH, Hammoud GM, Buckley D, Duke G, McCulloch W, Kemble G: Pharmacologic inhibition of FASN reverses diet-induced steatohepatitis in mice and inhibits lipogenesis in humans. *Hepatology*, 66(1):-1045A, abstract #1972, 2017
- Syed-Abdul MM, Peterson EC, Mills-Gray SL, Parks EJ, Ball SD. Stay Strong, Stay Healthy: University of Missouri Extension's strength-training program for older adults in community settings. *Medicine and Science in Sports and Exercise*, 48(S5):95, 2016
- Jacome-Sosa M, Hu Q, Manrique C, Parks EJ. Slower rate of absorption at dinner versus lunch is associated with lower concentrations of triacylglycerol the following morning *FASEB J*, 2015
- Hu Q, Sanders PE, Jacome-Sosa M, Kuo M-S, Shankar SS, Parks EJ. Quantitation of dietary fat incorporation into intramuscular lipid species in humans. T-OR-2060, *Obesity*, 2015
- Lambert JE, Lee JJ, Hovhannisyan Y, Valdez MJ, Bradford DL, Ramos-Roman MA, Browning JD, Parks E: Elevated lipogenesis in NAFLD is associated with lower hepatic export of plasma free fatty acids secreted in VLDL-TG. *Diabetes*, vol 61, suppl 1 (#1762), 2012

- Valdez MJ, Lambert JE, Lee JJ, Hovhannisyan Y, Bradford DL, Ramos-Roman MA, Parks EJ: Diet interventions of different composition result in similar weight loss but alter fed-state fuel oxidation. *Diabetes*, vol. 61, suppl 1 (#1823), 2012
- Hovhannisyan Y, Lee J, Ramos-Roman M, Bradford D, Valdez M, Parks EJ: High fasting ghrelin concentrations are related to low fatty acid flux in overweight subjects. *FASEB J*, 26(Suppl):1014.1, 2012
- Lee JJ, Bradford DL, Valdez MJ, Hovhannisyan Y, Lambert JE, Ramos MA, Parks EJ: Elongase of long chain fatty acids family 6 (ELOVL6) and stearoyl-CoA desaturase-1 (SCD1) indices suggests potential metabolic benefits in patients with a range of liver fat contents. *FASEB J*, 26(Suppl):1014.7, 2012
- Borke KA, Valdez MJ, Bradford DL, Parks EJ: Focus on caloric restriction weight loss, what about activity? *Obesity*, vol 19, suppl 1, p114, 2011
- Sunny NE, Parks EJ, Browning JD, Burgess SC: Glucose and mitochondrial metabolism in human subjects with non-alcoholic fatty liver disease. *Diabetes*, 2011
- Ramirez R, Baker JA, Davis J, Bradford D, Parks EJ, Rogers T, Browning JD: NAFLD activity score and hepatic steatosis: A problem of resolution. Liver Meetings, 2010
- Bastarrachea RA, Higgins PB, Veron S, Voruganti VS, Garcia-Forey M, Frost P, Comuzzie AG, Parks EJ: Development of methodology for the measurement of overnight lipolysis in vivo in *Papio hamadryas*. Obesity Society, San Diego, CA, Oct 8-12, 2010. *Obesity Research*: A146P
- Vaidyanathan V, Bastarrachea RA, Voruganti VS, Higgins P, Parks EJ: Significant effect of an endocannabinoid antagonist to improve fatty acid flux in a primate model of obesity and insulin resistance. *Diabetes*, 59(1):1472P, 2010

### **Selected Abstracts and Meeting Presentations, continued**

- Ramos-Roman MA, Belzer LM, Lapidot SA, RD Phair RD, EJ Parks EJ: A broad range of adipose insulin sensitivity correlates with fasting NEFA concentration in an obese group of women. *Diabetes*, 59(1):1388P, 2010
- Parks EJ: Oral fat exposure elevates chylomicron-TG and delays subsequent glucose metabolism. *Diabetes*, 57(1):1422P, 2008
- Parks EJ, Peterson KL: Paradoxical expansion of the liver-TG pool with fasting in *Txnip*<sup>-/-</sup> mouse. The 6th Annual Conference on Arterio, Thromb and Vasc Biol in Washington, DC, Apr 28-30, 2005
- Donnelly KL, Smith CI, Schwarzenberg SJ, Boldt MD, Jessurun J, Parks EJ: Postprandial lipid metabolism in nonalcoholic fatty liver disease (NAFLD). *Hepatology*, 40(4, suppl 1): 426A, 2004
- Timlin MT, Parks EJ: Study of fatty acid sources contributing to VLDL-triglyceride postprandially using multiple stable isotopes. *Diabetes*, 53(6):A338, 2004
- Donnelly KL, Smith CI, Schwarzenberg SJ, Boldt MS, Parks EJ: Stable isotope methodology to identify sources of fat in liver biopsy tissues from patients with non-alcoholic fatty liver disease (NAFLD). *Diabetes*, 53(6):A53, 2004
- Baar RA, Dingfelder CS, Smith LA, Bernlohr DA, Parks EJ: Investigation of in vivo fatty acid metabolism in *AFABP/aP2*<sup>-/-</sup> mice. *FASEB J*, 18(4):A6, 2004
- Parks EJ: Treatment of lipoprotein disorders in AIDS: influence of dietary factors. *European J Medical Research*, 8(supple 2):p 10, 2003
- St. Peter JV, Khan MA, Schut RL, Barrows BB, Parks EJ: Free fatty acid levels in patients with HIV, treated with protease inhibitors. *Diabetes*, 53(6):A53, 2003
- Donnelly KL, Sheth SS, Lusic AJ, Parks EJ: Measurement of lipid turnover in a mouse model of hyperlipidemia. *FASEB J*, 16(4):A633, 2002

Parks EJ, Culbertson K, Jung HR, Hellerstein MK: The use of stable isotopes and mass isotopomer distribution analysis (MIDA) to quantify the contribution of dietary and de novo synthesized cholesterol in mouse tissues. 72nd AHA National Meetings, Atlanta, GA. *Circulation*, 100(18):109:19, 1999

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## SELECTED ORAL PRESENTATIONS

### **Oral Presentations: National and International Venues**

- "Liver metabolic flux in NAFLD and NASH," presented at the 2020 Keystone Meeting, "Obesity and NAFLD: Mechanisms and Therapeutics," Banff Springs, Alberta (2/ 25/20)
- "The interplay between dietary, adipose, muscle, and liver metabolism," presented in the FASEB Summer Research Conference entitled Regulation of Glucose Metabolism: From Cell Biology to Systems Physiology (6/18/19)
- "Food Intake in Clinical Research Studies: How Much Dietary Control and for How Long?" presented in the Symposium entitled, Nutrition as a Biological Variable: Considerations for the Future of Physiology Research at Experimental Biology (4/7/19)
- "Therapies to reduce the burden of NAFLD in humans," Granner Lecture, Vanderbilt University (5/25/18)
- "Metabolic changes in fatty liver regression," presented as the 57th annual Max Miller Lecture in Diabetes Research, Annual Meeting of the Central Society for Clinical and Translational Research and Midwest Section of the American Federation for Medical Research (4/26/18)
- Drug Development in NAFLD: Lipogenesis as a target. 2018 Keystone Meeting, "Organ Crosstalk in Obesity and NAFLD," Keystone, Colorado, January 22-26, 2018
- Post-meal bioenergetics and fuel metabolism, in the Symposium entitled, "The Integrative Physiology of a Meal," presented at Experimental Biology (4/25/17)
- "Fatty acid kinetics and late-night lipid metabolism," presented in recognition of the Robert I Levy Award, Kinetics and Metabolism Society, Nashville, TN (5/4/16)
- "Fatty acid dysregulation in NAFLD," presented at the NIH-STOPNASH: *Symposium on the Origins and Pathways of Nonalcoholic Steatohepatitis*, Washington, DC (10/7/15)
- "When food becomes you: Intestinal metabolic regulation of glucose and lipid homeostasis." American Diabetes Association Nat'l Meetings, Metabolism symposium (6/8/15)
- "Advances in the understanding of enterocyte lipid handling." ASN Symposium entitled, Determinants of Disease Risk in the Postprandial Period. *Experiment Biology Meetings*, Boston, MA (3/29/15)
- "In vivo quantitation of intracellular TAG assembly in humans." Keystone meeting entitled, Liver Metabolism and NAFLD, Whistler, BC (3/26/15)
- "Fatty acid metabolism in obesity and fatty liver," authors Parks EJ, Hu Q, Sanders P, Kuo M-S, Shankar SS. Keystone meeting entitled, Systems Biology of Lipid Metabolism, Breckenridge, CO (2/11/15)
- "Going with your gut: Individual responses in dietary fat absorption," Energy and Macronutrient Metabolism Research Interest Section 'Hot Topics Lecture.' *Experimental Biology Meetings*, San Diego, CA (4/27/14)
- "Dietary sugars, synthesized into fat, are a distinctive feature of NAFLD," Finnish Diabetes Association Keynote Address, Helsinki, Finland (11/28/13)
- "Sugars and dyslipidemia." Norwegian Heart and Lung Association National Meeting, Oslo, Norway (1/24/13)
- "De novo lipogenesis in mice and humans." Yale Endocrinology Grand Rounds, New Haven, CT (12/14/12)
- "Postprandial response to dietary fat: Considerations of its measurement." The 14th Annual International Symposium of the Merck-Frosst / CIHR Obesity Research Chair, University of Laval, (11/11/11)
- "Effect of fructose on short-term feeding and lipoprotein production and clearance." NIH Consensus Workshop of Fructose Metabolism, NIH, (11/13/12)
- "De novo lipogenesis and insulin resistance." Sanford Burnham Medical Research Center, (8/21/11)
- "De novo lipogenesis in humans and its role in fatty liver disease." Endocrine Research Unit, Mayo Clinic, Rochester, MN (4/5/11)
- "Lipogenesis: Regulation and role in human metabolism." City-wide Endocrine Grand Rounds, University of Toronto Medical School (1/21/11)
- "Alterations in fatty acid partitioning during feeding." Keystone Symposium, Obesity and Diabetes (1/14/11)
- "Lipogenesis, is it related to inflammation?" Menrini Diabetes Meeting, Lucca, Italy (12/3/10)

- “Dietary influences on TG-rich lipoprotein production.” Keystone symposia entitled TG and TG-rich particles in health and disease. Big Sky, MT (1/10/10)
- “Dysregulation of hepatic metabolism: Body fat gain and loss.” American Diabetes Association National Meetings, New Orleans, LA (6/6/09)
- “Lipid Fluxes: Conclusions gleaned from kinetic studies.” Frontier Lipidology, Gothenberg, Sweden (5/13/09)
- “Lipid metabolism leading to fatty liver: triglyceride synthesis from dietary carbohydrate and fat.” Department of Internal Medicine, University of Michigan (12/9/08)
- “Regulation of energy balance in humans.” National meeting of the North American Association for the Study of Obesity (The Obesity Society), New Orleans, LA (10/22/07)
- “Lipid processing in the gut.” Pangborn Sensory Science Symposium, Minneapolis, MN (8/13/07)
- “Fatty acid flux through the liver.” European Atherosclerosis Society Meetings, Helsinki (6/12/07)
- “Why does fat accumulate in NAFLD?” Finnish Diabetes Research Society, Helsinki (8/18/06)
- “Dietary macronutrients and metabolic risk.” Metabolic Syndrome/Metabolic Risks, a Joint Symposium by the AHA and ADA, San Francisco, CA (5/4/06)
- “An interactive session on nutrition for heart health.” 2006 LifeTrac Network Conference on Liver Transplantation, Minneapolis, MN (5/8/06)
- “Metabolic flux of fatty acids contributing to hepatic triglyceride in vivo: effects of dietary macronutrient composition.” Department of Nutrition, Harvard School of Public Health (11/7/05)
- “Postprandial fatty acid assimilation and the human liver.” Agri-Food Innovation Forum, Ontario, Canada (6/21/05)
- “Transfer of dietary lipids into hepatocellular lipids and VLDL: An audience forum on fatty acid recycling.” Kinetics and Kinetic Modeling in Systems, a satellite symposium to the 6th Annual AHA Conference on Arteriosclerosis, Thrombosis, & Vascular Biology, Washington DC (4/27/05)
- “Fatty acid sources contributing to hepatic steatosis identified by GC/MS.” Inaugural Presentation for UT Southwestern Medical Center’s Obesity Research Seminar Series, Dallas TX (1/18/05)
- “Regulation of fatty acid sources contributing to hepatic steatosis.” American Association for the Study of Liver Disease, 2004 National Meeting, Boston, MA (10/30/04)
- “Sources of liver fatty acids in healthy subjects and patients with steatohepatitis.” Endocrine Grand Rounds, National Institutes of Health, Bethesda, MD (10/29/04)
- “New methodology to determine the fatty acid sources fluxing through the liver.” FASEB Summer Research Conference entitled, “Integrative approaches to understanding obesity and its metabolic and clinical consequences.” Pine Mountain, GA (8/8/04)
- “Variability of liver response to meal fat and carbohydrate,” in the symposium entitled Metabolic Signatures: Flux Detection of the Silent Pre-Diabetic Phenotype, American Diabetes Association National Meetings, Orlando, FL (6/5/04)
- “Treatment of lipoprotein disorders: dietary factors.” First European Symposium on the Clinical Significance of Lipoprotein Disorders in HIV+, Munich, Germany (11/21/03) Published in European Journal of Medical Research, 8(supple 2):p10, 2003.
- “Use of the multiple stable isotope approach to quantitate fatty acid sources in postprandial apoB lipoproteins.” Kinetics and Kinetic Modeling in Systems, a satellite symposium to the 4th Annual AHA Conference on Arteriosclerosis, Thrombosis, & Vascular Biology Meeting. Washington DC (5/7/03)

### **Regional and Local Professional Meetings**

- Guest speaker at the 2019 Ninth Annual Barnstable Brown Diabetes and Obesity Research Day (5/23/19)
- William Hansel Visiting Scientist Seminar Series (3/27/19)
- Keynote address, second annual diabetes retreat for the Fraternal Order of Eagles Diabetes Research Center, Carver College of Medicine, University of Iowa (12/10/16)
- “An extended timeframe for lipid absorption through the enterocyte in humans, Southwestern Lipid Research Conference, Callaway Gardens Resort, Pine Mountain, GA (9/09)
- “Dietary carbohydrate in the control of fat synthesis.” Endocrinology Seminar, VA Medical Center, Dallas, TX (5/6/08)



- “Sources of fats contributing to fatty liver in obesity.” Medical Science Seminar for Physicians, Division of Digestive and Liver Diseases, UT Southwestern Medical Center, Dallas, TX (2/9/06)
- “What to eat and when: The natural cycle of macronutrient oxidation and storage.” A seminar for advanced diabetes educators, International Diabetes Center, Minneapolis, MN (4/22/04)
- “Postprandial fatty acid flux: Factors that alter the influx of triacylglycerols into the blood,” Minneapolis City-wide Diabetes Conference (3/25/04)
- “Food guide pyramid: Controversies and questions.” Minnesota Nutrition Council (5/14/03)
- “Methods to determine the causes of excess liver fat in patients with non-alcoholic steatohepatitis (NASH) and fatty liver.” Grand Rounds, University of Minnesota Medical School (9/26/02)

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## **PROFESSIONAL ACTIVITIES AND SERVICE**

### **Professional Affiliations**

- 1987 - present: American Heart Association (AHA), Fellow 1999
- 1995 - present: American Society for Nutrition (ASN), Associate Member 1999
- 1996 - present: American Diabetes Association (ADA)
- 1999 - present: The Obesity Society (TOS, formerly NAASO), Fellow 2007
- 2015 - present: American Physiologic Society (APS)
- 2015 - present: American Association for the Advancement of Science (AAAS)
- 2000 - 2009: American Oil Chemists Association (AOCS, Health & Nutrition Div)

## **PROFESSIONAL SERVICE**

### **National**

- NIH Service
  - Standing Member, Study Sections: Clinical and Integrative Diabetes and Obesity (CIDO) and ZRG1 EMNR K 90, and Endocrinology, Metabolism, Nutrition and Reproductive Sciences IRG (EMNR) ('09-'12), chair EMNR ('16, '17)
  - Service as ad hoc member or chair of study sections:
    - Small Business Innovation Research Grants for Endocrinology, Metabolism, Nutrition and Reproduction Sciences (ZRG1 EMNR-W10) ('17, '18)
    - Integrative Physiology of Obesity and Diabetes (IPOD, '17)
    - CIDO ('13, '14, '15, '19),
    - Integrative Nutrition and Metabolic Processes (INMP, '19)
    - Hepatobiliary Pathophysiology (HBPP, '13)
    - Cellular Aspects of Diabetes and Obesity (CADO, '16-'17, '18)
  - Ad hoc Reviewer for the NIH Board of Scientific Counselors ('12, '17)
  - Special Emphasis Review Committee Member for:
    - R21, U.S.-India Bilateral Collaborative Research Partnerships on Diabetes Research ('15)
    - DP5, NIH Director's Early Career Independence Awards ('14)
    - R01 in Digestive Sciences ('14)
    - R13 Conference Applications ('10, '12, '14)
    - R01 Clinical Ancillary Study Grant Applications ('12)
    - R24, Seeding Collaborative Interdisciplinary Team Science ('10)
  - Co-Chair, NIH Consensus Symposium, “Clinical Research Strategies for Fructose Metabolism,” November 13-14, 2012

- American Diabetes Association Grant Review Committee ('13-'19)
- American Heart Association Grant Review Committee – Lipids 2 ('13)
- Obesity Society
  - Nomination Committee ('18-'20)
  - Strategic Planning Committee ('18)
  - Scientific Program Meeting Vendor Review Committee ('18-'21)
  - Membership Committee ('15-'17)
  - Mentoring Program Taskforce ('17-present)
  - Council Member ('12-'15), liaison to sections on Cancer, eHealth/mHealth, Pediatrics and Biobehavior
  - Program Committee Chair of metabolism track ('12-'13)
  - Program Committee ('10-'13)
- American Society for Nutrition
  - Editorial Board, Advances in Nutrition ('10-'18), Search committee for Editor ('12)
  - Publications Management Committee ('13-'16), Chair ('15-'16)
  - Midwest Correspondent, Nutrition Notes ('14 - present)
  - Member, Young Investigator Awards Committee ('10-'12)
  - Chair, Obesity Working Group ('10-'11)
  - Advisor, Young Professional Interest Group ('09-'12)
  - Editorial Board, Journal of Nutrition Metabolomics specialty ('03-'05)
  - Nominating Committee for National Officers and Councilors, ASCN ('04-'05)
  - National Awards Committee, American Society for Clinical Nutrition ('03-'05)
  - Chair, Energy and Macronutrient Metabolism Res. Interest Section (RIS) ('02)
  - Organizer and co-chair of Experimental Biology Symposia on Ghrelin ('04), Lipoproteins ('03, '04), Phytochemicals ('02), Energy Balance ('00)
- Co-organizer, 1st International Workshop of NASH Biomarkers, Washington DC ('16)
- Organizer and co-chair, UT Southwestern Medical Center, Mass Spectrometry and Isotope Kinetics Discussion Group (monthly meetings)
- Reviewer for the USDA Agricultural Research Service's Office of Scientific Quality Review ('09)
- President, Minnesota Mass Spec Disc Group ('02-'03) and Exec Board ('01), quarterly meetings
- Co-organizer, 2003 ASPEN Research Workshop entitled, "Use of tracers to define human fuel and substrate metabolism," San Antonio, TX

### **Ad hoc Journal Review**

Arteriosclerosis, Thrombosis and Vascular Biology	American J Clinical Nutrition
Atherosclerosis	British J of Nutrition
J Lipid Research	J American College of Nutrition
Cell Metabolism	J Nutrition
Diabetes	Lipids
	Hepatology
	Gastroenterology
	J Clinical Endo and Metabolism
	J Clinical Investigation

Gastroenterology  
Hepatology

Metabolism  
PNAS

Liver International Journal  
Obesity

### **Internal Committee P&T Assignments**

2016 - present Member, School of Medicine P&T Committee  
2015 - 2016 Chair, Department of Internal Medicine P&T Committee  
2014 - present Member, Department of Nutrition and Exercise Physiology P&T Committee  
2007- 2013 Member, UT Southwestern School for Health Professions P&T Committee

### **Academic Promotion and Tenure Review**

#### **External review of faculty promotion/tenure packets**

2018 Canadian Research Chairs Program  
2017 NIH intramural Program  
2016 Icahn School of Medicine at Mount Sinai, NY  
University of Texas Southwestern Medical Center, School of Medicine  
2014 University of Oklahoma Health Sciences Center, School of Medicine  
2013 University of Washington, School of Medicine  
University of Colorado, Denver, School of Medicine  
Emory University School of Medicine  
2012 Texas A&M University, College of Agriculture  
2012 University of Oklahoma Health Sciences Center  
2011 Cedars-Sinai Medical Center  
2010 University of Michigan School of Medicine  
2010 Purdue University, College of Health and Human Sciences  
2010 University of Colorado, Denver, School of Medicine  
2009 UC-San Francisco School of Medicine  
UC-Davis School of Medicine  
2005 UC-San Francisco, School of Medicine  
2003 University of Wisconsin, Green Bay

### **University / Departmental / College Contributions**

#### **University of Missouri**

##### *University-Level Service*

- Member, School of Medicine Research Space Strategic Planning (2019- present)
- Member, Committee on Research Infrastructure and Incentives (2018-2019)
- Member, Search Committee, University of Missouri Chancellor (2017)
- Member, Search Committee for Medical School, Senior Assoc. Dean for Research (2017)
- Member, Search Committee for Dean of Human Environmental Sciences (2016)

##### *MU School of Medicine Service*

- Member, Executive Committee, MU Women In Medicine and Medical Sciences (2018-present)
- Member, Search Committee, Division Director of Pediatric GI (2018-2019)
- Member, School of Medicine P&T Committee (2016-2018)

- Chair, Department of Internal Medicine P&T Committee (2015-2016)
- Chair, Division of Gastroenterology and Hepatology Mentoring Committee (2015-present)
- Member, School of Medicine Dean's Advisory Committee on Clin. Res. (2016-present)
- Member, Clinical Research Center Scientific Advisory Board (2015-present)
- Member, Faculty Affairs Committee (2013-2018)
- Member, Department of Internal Medicine Research Council (2013-2014)

#### *University of Missouri Campus-Level Service*

- Reviewer, Bond Life Sciences Graduate Fellowship applications (2019)
- Reviewer, Mizzou Advantage Grant Program (2014)

#### **UT Southwestern Medical Center School of Allied Health**

- Chair, Research Committee (2010-2013), committee member (2006-2009)
- Member, Faculty Search Committee, Physician's Assistant Program (2008-2009)
- Member, Promotion and Tenure Committee (2009-2012)
- Lecturer, Convergence lecture series, School for Health Professions, "Circadian control of metabolism and body weight" (9/10/10) and Workplace Weight Loss Program (9/7/10)

#### **University of Minnesota**

- Assisted in drafting/editing College Research Strategic Vision, 2002
- Wrote and or graded PhD written exam questions (2000-2004)
- Departmental commencement representative (2000-2004)
- Presentation to Advisory Council on weight-loss programs (2002- 2004)
- Department of Food Science and Nutrition (FScN) Steering Committee (2003)
- Served on: Food Science and Nutrition (FScN) Graduate student admission committee, FScN Undergraduate and graduate curriculum committee, College of Agriculture prospective student services advisory committee (2004), faculty development committee (2002), building renovation committee (2003)

#### **Selected Outreach and Engagement Activities**

- Columbia College Lecture "Using Practical Health Tips To Maintain Your Body Weight " (4/16/18)
- The Science Writers 2009 national meeting discussion entitled "How food becomes you." National Association of Science Writers Annual Workshops and the Council for the Advancement of Science Writing's New Horizons in Science Briefings, Austin, TX (10/18/09)
- Mt View Community College, Dallas, TX, Health Lecture, "Why not Blue Bell ice cream at 10 PM?" (11/24/08)
- Science Teacher Access to Resources at Southwestern (STARS) Program, Lecture, Obesity Epidemic (10/12/08)
- Provided testing of liver enzymes at VIVA Dallas (09/04/08 and 08/08/09), Hispanic Health Fair, KwanzaaFest ( and 12/13/09), African American holiday festival, and Church Health Fair (09/26/19 at Faith Memorial Church, Dallas, TX

- Presidents' Council Texas Association of Healthcare Volunteers: "Dietary control of metabolism." Dallas, (5/28/08)
- St. Paul Medical Foundation Friends Speaker Series: "Why not Haagen-Dazs at 10 p.m.?" Dallas, TX (9/25/07)
- Younger Friends of the Center for Human Nutrition: "Understanding the control of food intake." Dallas, TX (6/5/07)
- AHA CME Workshop, "Get with the guidelines: heart failure and CAD." (9/19/05)
- Extension Civil Service Staff Development, Koinonia Retreat Center, South Haven, MN (5/6/04)
- Agricultural Seminar for Clergy, Southern Research Outreach Center: "Personal Health Challenges and Preventive Medicine" (09/11/03)
- College of Human Ecology 2002 Research dialog, "Food for your muscles" (05/23/02)
- Diabetes workshop: American Indian Ginew/Golden Eagle Program (4/9/01)

## MENTORING/ADVISING

### I. NATIONAL MENTORING ACTIVITIES

Department Chairs in the Association of Nutrition Departments and Programs and Food Science Departments Presentation: "The care and feeding of the assistant professor" (10/26/17)

Experimental Biology Presentation: "Navigating the research-intensive institution," presented in the symposium *Navigating the Current Job Market – Grab Hold of Your Future Now!* Organized by the Young Professionals Interest Group and the Nutritional Sciences Council (4/21/13)

The Obesity Society Presentation: Mentoring breakfasts and lunches (2010, 2011, 2013)

American Society for Nutrition, Advisor for Young Professionals Interest Section (2009-2013)

Experimental Biology Presentation: "Choosing the right nutrition-related postdoctoral position," presented in Washington DC (4/28/07)

### II. RESEARCH MENTORING *Primary mentor for Fellows (n=13) and Graduate Students (n=6)*

#### University of Missouri

Justine Mucinski, BS, 2017 - present. MU Doctoral student in Exercise Physiology.

Majid Mufaqqam, MS, 2015 - present. MU Doctoral student in Nutrition, advanced to candidacy, 2018.

Matt Panasevich, PhD, MU Postdoctoral Fellow, 2015 - 2017. Co-mentored with Dr. Scott Rector, PhD. Matt is currently a senior scientist for Blue Buffalo Pet Food Company.

Qiong Hu, PhD, MU Postdoctoral Fellow, 2013 - 2016. *Elected as postdoc representative on the ASN Energy and Macronutrient Metabolism Research Interest Section (2015).*

Qiong is now a Senior Research Scientist at Cargill Inc.

Miriam Jacome-Sosa, PhD, MU Postdoctoral Fellow, 2013 - 2016 *Participant in the 2015 Dannon Leadership Institute; Finalist, ASN Postdoctoral Fellow Competition,*

*Experimental Biology 2015.* Miriam completed her 2nd postdoctoral fellowship at Washington University where she has been hired as an Instructor in Medicine.

Ryan Heath, MD, 2016, MU Gastroenterology research fellow

Alhareth Al Juboori, MD, 2017, MU Hepatology research fellow

Ahmad Ali, MBBS, 2018, MU Hepatology research fellow

Britt Hultgren, M3, completed a School of Medicine Nutrition Elective, 2018-2019

### **University of Texas Southwestern Medical Center**

Justin R. Trombold, PhD, UTSW Postdoctoral Fellow, 2012 -2014. Dr. Trombold performing one project in the Parks Lab, he completed his MBA.. He is now at Grant Thorton, LLP, Audit, Tax and Advisory Services.

Jennifer E. Lambert, PhD, UTSW Postdoctoral Fellow, 2011 – 2013. *Dr. Lambert was chosen to participate in the Dannon Leadership Institute in 2013 and was a recipient of an Eyes High postdoctoral fellowship through the Canadian Government.* She is currently a Senior Research Associate, Alberta's Tomorrow Project, CancerControl Alberta, Alberta Health Services.

Maria A. Ramos-Roman, MD, UTSW Associate Professor, Division of Endocrinology, 2009 – 2017. *Dr. Ramos-Roman was awarded her first independent grants in 2013 (NIH and ADA) and promoted to Associate Professor in 2015.*

Kimberly Borke, MD, UTSW Pediatric ICU Endocrine Fellow, 2010 – 2011. Dr. Borke is now in private practice.

Lisa M. Belzer, PhD, RD, UTSW Postdoctoral fellow, 2008 – 2010. Dr. Belzer went on to take an Associate Nutrition Scientist position for Dr Pepper/ Snapple group.

Gisella Mutungi, PhD, UTSW Postdoctoral fellow, co-mentored with Jay Horton, MD, 2008-2009. Dr. Mutungi is a Nutritional Research Scientist at Pfizer Pharmaceutical, Inc.

Rosa Chavez Jauregui, PhD, UTSW Postdoctoral fellow, 2004-2007. Dr. Jauregui is an Assistant Professor at the University of Puerto Rico-Mayaguez.

Nishanth E. Sunny, PhD, UTSW Postdoctoral fellow, 2008-2011. Dr. Sunny was co-mentored by Dr. Parks when he was a postdoctoral fellow in the laboratory of Shawn Burgess. Dr. Sunny is currently a tenure track Assistant Professor in the Department of Animal and Avian Sciences at the University of Maryland.

### **University of Minnesota**

Brian Barrows, PhD, 2004. University of Minnesota dissertation title: “Fatty acid flux in fasted and fed humans.” Then, Dr. Barrows completed an NIH-supported postdoctoral fellowship. He is currently Program Director - Brewing Science at Trocaire College Russel J. Salvatore School of Hospitality and Business.

Rachel Hasser Baar, MS, RD, 2004. University of Minnesota thesis title: “Investigation of in vivo fatty acid metabolism in AFABP/aP2 null mice.” Ms. Baar is currently employed by Abbott Hospital in St. Paul, Minnesota.

Kerry Donnelly Peterson, PhD, RD, 2004. University of Minnesota dissertation title: “Lipid metabolism in fatty liver: studies in mice and humans.” Dr. Donnelly Peterson is a tenured Associate Professor of Nutrition and Department Chair at the University of Wisconsin-Stout.

Maureen (Molly) Timlin, MS, RD, PhD, 2005: University of Minnesota dissertation title: “Meal composition and lipoprotein lipid sources: Effect of rate of nutrient delivery and

carbohydrate source.” Dr. Timlin is an Associate Professor and Director of the Dietetics Program at Southeast Missouri State University.

### **Member of Graduate Committees (n=10)**

Jay Porter, doctoral student, 2016 - present, MU Advisor, Dr. Jill Kanaley, NEP  
Nathan Winn, doctoral student, 2014 - 2018, MU Advisor, Dr. Jill Kanaley, NEP  
Robert Restaino, doctoral student, 2016 - 2018, MU Advisor, Dr. Jaume Padilla, NEP  
Sonya Veron, MS, '14 Advisor, UT-Austin Dr. Edward Mills, Pharmacy  
Ann Marie Connor, PhD '01, UMN Advisor, Dr. Jim Luby, Horticulture  
Gaurang Shah, MS '01, UMN Advisor, Dr. Donna Arnett, Epidemiology  
Annette Van Lengerich, MS '03, UMN Advisor, Dr. Penny Gannon, Nutrition  
Jennifer Causey, PhD '03, UMN Advisor, Dr. Craig Hassel, Nutrition  
Angela Hall, PhD '05, UMN Advisor, Dr. Dave Bernlohr, Biochemistry  
Jennifer Teske, PhD, '07, UMN Advisor, Dr. Cathy Kotz, Nutrition

### **Research Undergraduates and Laboratory Interns (n=36)**

Christian Fenton: 2019 - present, Nutritional Sciences undergraduate and Discovery Fellow.  
Alisa Perry: 2018 - present, Biological Sciences undergraduate and fellow, MU Initiatives for Maximizing Student Development (IMSD). *Awardee, 2019 IMSD Summer Research Fellowship. Outstanding Poster Award at the 2019 Annual Biomedical Research Conference for Minority Students in Anaheim, California and the First Place Undergraduate and Medical Student Clinical Research Award at MU's Health Sciences Research Day in November, 2019*  
Jillian Otto: 2016 - present, Nutritional Sciences undergraduate and Discovery Fellow. *Awardee, Program for Undergraduate Research Experiences 9-month research fellowship*  
Ramiro Arreola: 2016 - 2019, Engineering undergraduate  
Zereque Powell: 2017 - 2019, Biology major and undergraduate and fellow, MU Initiatives for Maximizing Student Development. *Awardee, 2018 IMSD Summer Research Fellowship.*  
Brad Oxler: 2016 - 2018, Nutritional Sciences and Biological Sciences (graduated)  
Stephen Liddle: 2017 - 2018, Animal Science undergraduate (graduated)  
Erica Braham: 2016 - 2017, Health Sciences undergraduate and fellow, MU Initiatives for Maximizing Student Development (graduated)  
Ramakrishna Bysani: 2016, SOM pre-medical summer research intern  
Manal Salim: 2014 - 2017, Discovery Fellow undergraduate. *Awardee, Program for Undergraduate Research Experiences 9-month research fellowship (graduated)*  
Tate Smith: 2016, Dietetic undergraduate  
Ashlynn Maynard: 2014 - 2015, Food Science undergraduate (graduated)  
Kimberlee Bingham: 2015 - 2016, Nutrition and Fitness undergraduate (graduated)  
Nhan Le: 2013 - 2016, Health Sciences undergraduate (graduated)  
Tyler Sutphen: 2015, Nutrition and Fitness undergraduate (graduated)

Lu Chen: 2013 - 2015, Nutrition undergraduate (graduated): *Awardee, HES Summer Program for Undergraduate Research Experience*. Currently a graduate student at TAMU.

Renan Codonato: 2014, Exercise Physiology: *Awarded, Brazilian Government's funding for research through the Institute for International Education Internship*. Currently graduate student in Brazil.

Casey Fogarty: 2014, Bioengineering undergraduate

Mary-Clare Gibson: 2014 - 2015, Health Sciences undergraduate; currently employed in the health care industry (graduated).

Maryam Yeganehjoo: 2011-2012, UTSW Clinical nutrition

Cory Eck: 2010, UTSW Clinical nutrition

Jessica Pyland: 2010, UTSW Clinical nutrition

Sonya Veron: 2009-2010, UT Dallas, Awardee, Green Undergraduate Fellowship

Amanda Roberts: 2009-2011, UTSW Clinical nutrition

Elizabeth Pelaez: 2009-2010, UTSW Clinical nutrition

Laura Osornio: 2009, UTSW Clinical nutrition

Karla Miranda, 2009, Awardee, UTSW Summer pre-med student research fellow

Tim Nguyen: 2009, UT-Austin, summer intern

Leda Tello: 2008, UTSW Clinical nutrition

Thara Bose: 2007, UTSW Clinical nutrition

Lauren Skogen: 2006, UT-Arlington Department of Engineering

Carlus Dingfelder: Spring 2003, UMN undergraduate Awards for Research Opportunity

Audrey Schieber: Summer 2003, UMN undergraduate Awards for Research Opportunity

Erica Jacovetty: Summer 2002, UMN undergraduate Awards for Research Opportunity

Johanna Rehorst: Summer 2002, UMN Johnson Research Award

Vickie Wu: Spring 2002, UMN undergraduate Awards for Research Opportunity

Ann Pylkas: Spring 2001, UMN undergraduate Awards for Research Opportunity

### **University of Minnesota Undergraduate Advising**

From 2000 to 2005 at the University of Minnesota, I was the advisor for the Bailey Scholars Program in Nutrition, a four-year scholarship program for 32 students in the University of Minnesota's Honors Program.

### **III. GRANT MENTORING *Activities with Early-Career Faculty (n=18)***

#### **University of Missouri, Columbia and Faculty at other Institutions**

Katherine Anguah, PhD, Research Assistant Professor, MU Nutrition and Exercise Physiology: Preparing K-award application, 2018-present.

Andrew Wheeler, MD, MU Assistant Professor of Surgery. Industry contract application and professional development, 2018 - 2019

Melanie Cree Green, MD, Assistant Professor, University of Colorado: Mentor, K23 award, *successful submission of Doris Duke grant and NIH R01*.

Camila A. Manrique, MD, Associate Professor, MU SOM, Endocrinology: *Successful NIH Awards: K08, R21, R01, 2014 - 2018*. Promoted to Associate Professor with tenure 2018

Vicki Vieira-Potter, PhD, Associate Professor, MU Nutrition and Ex Phys: *Multiple grant submissions in process, 2014-present*. Promoted to Associate Prof. with tenure, 2018.



Iris Zachary, PhD, Research Assistant Professor, MU SOM Health Informatics: *Multiple grant submissions in process*, 2014 - present

Melanie Cree Green, MD, PhD, Assistant Professor, University of Colorado Denver, SOM, Pediatrics Department. Co-mentor. *Multiple grants awarded (Doris Duke, R01)*, 2015 - 2018.

Olga Gupta, MD, Assistant Professor, UTSW Department of Pediatrics, 2012 - 2013

Shoba Shetty, PhD, Postdoctoral Fellow, UTSW Laboratory of Philipp Scherer, Touchstone Diabetes Center. Dr. Shetty is now a Principal Scientist at Pfizer.

Shai Manzari, MD, UTSW Pediatric ICU Endocrine Fellow, 2011- 2012. Research mentorship. Dr. Manzari is now on faculty at Children's Hospital, affiliated with UT Southwestern Medical Center.

Jin Seo, PhD, Postdoctoral Fellow, UTSW Dept of Developmental Biology, 2010 - present. *Successful AHA postdoctoral fellowship application*. Dr. Seo is an Assistant Professor in the Department of Biology at Rogers State University.

Matt Mitsche, PhD, Postdoctoral Fellow, UTSW Laboratory of Helen Hobbs and Jonathan Cohen. *I advised on a successful K01 in 2013*.

Christy Turer, MD, MSc, Assistant Professor, UTSW Dept of Pediatrics, 2010 - 2013, Assisted with study design and supported her *successful application for the Dannon Leadership Institute* (participant, summer 2011). *Dr. Turer was awarded a K23 in 2013*.

Matt Merritt, PhD, Assistant Professor, UTSW Advanced Imaging Research Center: *Successful NIH application in 2014*.

Miriam Vos, MD, MSc, Associate Professor, Emory School of Medicine. *Successful submission of an R13, conference grant (2014)*.

Kerry Donnelly-Peterson, RD, PhD, University of Wisconsin-Stout. Submitted an Investigator Initiated Award and R15 grant. Promoted to Assoc. Prof. with tenure, 2014.

Amrita Kamat, PhD, Associate Professor, Department of Medicine-Geriatrics, San Antonio VA Hospital. *Successful award of San Antonio VA research award. 2012 - 2016*. Dr. Kamat was promoted to Associate Professor at the UTHSC in 2014 and is now Deputy Associate Chief of Staff for Research and Development and a Research Health Scientist at the Audie Murphy Veterans Administration Hospital, South Texas Veterans Health Care System

Carrie Earthman, RD, PhD, Associate Professor, University of Minnesota, Dept of Nutrition. *Successful nomination of her for the ASPEN Dudrick Award, 2010*

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## **TEACHING**

### **University of Missouri**

- Problem Based Learning modules, Medical Students, MS I, Block 1 (faculty in charge, 2016, 2017, 2018)
- Medical Student Lectures, MS I, Block 1. Lipid, amino acid, and urea metabolism, integrated control of metabolism (3 lectures, 2018, 2019)
- Control of Energy Metabolism/Exercise Metabolism (Lecture: 03/10/14) Topics in Nutritional Sciences and Exercise Physiology: "Lipids, Lipoproteins and Cholesterol" NEP 8001, Spring 2015 (faculty in charge)
- Nutr Sci 8030, Etiology of Obesity, Spring 2015, 2017, 2019 (2-5 lectures)

### **University of Texas Southwestern Medical Center**

- Clinical Dietetics - Nutrition in Human Metabolism, Department of Clinical Nutrition, 2007 (# of students: 20), 2009 (20), 2010 (12), 2011 (15), 2012 (15), 2013 (15)
- Molecular Basis of Metabolic Regulation, UT Southwestern Graduate School, Division of Basic Sciences, Biological Chemistry Program, 2007 (22), 2008 (6)
- Issues in Management and Nutritional Sciences, UTSW, Department of Clinical Nutrition, 2006 (25)

### **University of Minnesota**

- Department of Food Science and Nutrition (FScN) Experimental Nutrition Laboratory, 2 credits - Spring 2001 (# of students: 48), 2002 (29), 2003 (54), 2004 (50), 2005 (58)
- Regulation of Energy Balance, 2 credits - Fall 2000 (21 students), Spring 2002 (23), 2003 (21), 2004 (22), 2005 (20)
- Advances in Nutrition: Lipoproteins, Cholesterol & Athero, 2 credits – Fall 2002 (8)
- Nutrition Graduate Seminar: 1 credit - Spring 2001 (7), Fall 2001 (4) UMN
- Undergraduate Independent and Directed Studies (10 undergraduate credit hrs each)  
Brittany Doktor, FScN 4291, 2002, Bonita Mohamed, MICB 4994, 2002  
Pat Lockyear, FScN 4291, 2001, John Yick, MICB 4994, 2002  
Anne Pylkas, FScN 4291, 2001
- Co-instructor for Nutrition and Metabolism: 4 credits – Fall 2004 (60 students), provided a series of six lectures that covered the area of fat and lipid metabolism and lipoprotein synthesis

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### **PROFESSIONAL DEVELOPMENT**

- Dean's Nominee and Participant for the Executive Leadership in Academic Medicine Program (ELAM) (2019-2020)
- "Interrupting Racism," a full day workshop on identifying hidden bias and skills to increase inclusiveness at work. Offered by the MU Center for Health Policy (3/23/18)
- Webinar, "Best practices in Editor-in-Chief and Editorial Board review: How to evaluate and remediate Editor-in-Chief and Editorial Board performance." (03/07/17)
- "Building Inclusive Classrooms and Clinics," a day-long training on reducing bias in academics" (03/22/16)
- "Academic Hiring at Mizzou," module on reducing bias in the academic hiring process offered through the MU Chancellor's Diversity Initiative (01/04/16)
- "Implicit Bias in the Academy," a presentation by Dr. Benjamin Reese, Vice President of Duke University's Office for Institutional Equity, University of Missouri (12/21/15)
- University of Missouri Advancement Seminar for Sponsored Research Activity (05/27/15)
- Women Faculty Career Development and Leadership Workshop sponsored by the MU School of Medicine Women in Medicine and Medical Sciences (04/03/15)

- Participated in a program by The Center for Creative Leadership (San Diego, CA) on the Change Style Indicator, which seeks to aid participants in understanding how they prefer to address change in the workplace and deal with situations involving change (04/05/08, sponsored by the Dannon Nutrition Leadership Institute).
- Attended University of Minnesota Teaching enrichment series: E-activities: 6 Easy Ways to Engage Students with Technology (05/06/04)
- Univ. of Minnesota Bush Early Faculty Development Program (08/01/01 – 05/30/02)  
Participated in seminars offered through the Teaching Enrichment Series (08/28/00)
  1. “New faculty orientation”
  2. “Enhancing lectures: they’re more than just talk”
  3. “Promoting critical thinking in your class”
- Human Ecology Symposium: "Issues Surrounding Teaching Review" (04/26/00)
- Univ. of Minnesota Human resources development seminar entitled “Keys to successful supervision” (09/17/01)
- Dannon Nutrition Leadership Institute, Wye River Conference Center (06/09/01-06/15/01)