

**CURRICULUM VITAE
BARBARA A. GOWER**

The University of Alabama at Birmingham Voice: (205) 934-4087
Department of Nutrition Sciences Fax: (205) 934-7050
616A Webb Bldg., 1675 University Blvd. email: bgower@uab.edu
Birmingham, AL 35294-3360

EDUCATION

B.S. Microbiology, 1980 - Pennsylvania State University, University Park, PA
Ph.D. Biology (Endocrinology / Physiology), 1990 - Univ. of Utah, Salt Lake City, UT
Postdoc Endocrinology, 1990 -1994 - School of Life and Health Sciences, University of
 Delaware, Newark, DE
Postdoc Metabolism, 1995-1997 - Department of Nutrition Sciences, University of
 Alabama at Birmingham, Birmingham, AL

ACADEMIC APPOINTMENTS

2013- Vice-Chair for Research, Dept. Nutrition Sciences, UAB
2010- Scientist, Center for Cardiovascular Biology, University of Alabama at
 Birmingham
2008- Director, Human Physiology Core, Diabetes Research Center, UAB
2007- Professor, Department of Nutrition Sciences, UAB
2007- Faculty, Medical Scientist Training Program, UAB
2001-2007 Associate Professor, Department of Nutrition Sciences, UAB
2001 - Scientist, UAB Nutrition Obesity Research Center
1999- Director, Metabolism Core Laboratory, Center for Clinical and Translational
 Science, UAB
1999- Director, Metabolism Core Laboratory, Nutrition Obesity Research Center, UAB
1998 - Associate Scientist, the Comprehensive Center for Healthy Aging, University of
 Alabama at Birmingham
1997 - 2001 Assistant Professor, Department of Nutrition Sciences, UAB

GRANT SUPPORT (CURRENT)

NIDDK (R01DK096388) “Race - adiposity interactions regulate mechanisms determining insulin sensitivity.” (PIs: **Gower**/Quon; 09/19/13-06/30/18; \$500,000 ADC). Goal is to test the hypothesis that significantly lower visceral/hepatic adiposity in African-Americans results in less impairment of hepatic insulin sensitivity, but that greater oxidative stress at skeletal muscle leads to lower muscle-specific insulin sensitivity.

NIDDK (R01DK049779) “Exercise intensity, metabolic rate & insulin sensitivity.” (PIs: Hunter/**Gower**; 09/01/10-07/31/14; \$480,000). Goal is to determine if exercise intensity has unique effects on insulin sensitivity after accounting for exercise volume and energy balance.

NIH/NHLBI (R01HL107916) “A photographic method for human body composition

assessment.” (PI: Affuso; 06/01/12 – 04/30/17; \$337,335). The purpose is to develop a novel method for measuring the quantity of fat and skeletal muscle mass in humans quickly, painlessly, safely, accurately, and inexpensively that can subsequently be used in many large scale and remote studies.

NIDDK (P30 DK56336) “Metabolism Core Laboratory for the Nutrition Obesity Research Center.” (PI: **BA Gower**, 06/01/12 - 05/31/17, \$150,000 annual direct costs). Objective: provide analyses for body composition, body fat distribution, and energy expenditure for clinical research studies related to nutrition and metabolism.

NCRR (UL 1RR025777) “Metabolism Core Laboratory for the Center for Clinical and Translation Science.” (PI: R. Kimberly, 05/19/08 - 04/30/13, on bridge funds, \$206,297 annual direct costs; Core Laboratory only). Objective: provide a hormone and substrate analysis service, insulin sensitivity analyses, and expertise on experimental design regarding insulin sensitivity testing and hormone/substrate analyses for CCTS-funded research projects.

NIDDK (1P60DK079626) “Human Physiology Core Laboratory for the Diabetes Research Center.” (PI: WT Garvey, 04/01/08-03/31/18, \$215,688 annual direct costs; Core laboratory only). Objective is to provide analyses of hormones, body composition, body fat distribution, insulin sensitivity and secretion, and cardiovascular function for DRTC-funded research projects.

GRANT SUPPORT (PREVIOUS 3 YEARS)

NIH/NIA (R01 AG033094) “Calorie Restriction and Changes in Body Composition, Disease Risk, Function, & Quality of Life in Older Adults.” (PIs: Ard & Locher; 09/15/09-06/30/14; \$597,593). The purpose of this randomized clinical trial is to compare the effects of changes in diet composition alone or combined with weight loss with an exercise only control intervention on body composition, disease risk function, and quality of life in obese older adults with co-morbid conditions.

Ingredion Inc. “Effect of resistant starch on metabolic health in women.” (PI: **BA Gower**; 11/01/11-10/31/13). Consumption of non-digestible (resistant) starch has been observed to improve insulin sensitivity in men. This study is designed to determine if resistant starch improves insulin sensitivity in women, looking carefully at menopausal status and menstrual cycle phase, and to test several hypotheses regarding the mechanism involved.

Egg Nutrition Center. “An egg-based breakfast maintains metabolic flexibility in older adults.” (PI: **BA Gower**; 01/03/12-01/02/14; \$160,000 total costs). The main goal is to test the hypothesis that circadian rhythms in processes that regulate fuel metabolism explain the observed beneficial effects of an egg-based breakfast.

NICHHD (R01 HD054960) “Reduced Carbohydrate Diet Intervention for PCOS.” (PI: **BA Gower**; 09/28/09 – 08/31/11; \$477,275 Annual Direct Costs). The objective is to develop a diet that optimizes reproductive and metabolic health among women with PCOS.

UAB Dept. Medicine, Div. Cardiovascular Disease, Translational Program Development and Research Acceleration Award. “Oxidative stress and risk for chronic metabolic disease.” (PI: **BA Gower**; 03/01/12-02/28/13; \$50,000 total costs). The goal of this pilot study is to establish that oxidative stress is greater in African-Americans when compared to Caucasians, and is linked to beta-cell function in African-Americans.

Glaxosmithkline (112035) “Interictal, Ictal and Post-Treatment Adipocytokine Levels in Migraine.” (PI: **Gower**, 01/04/10-12/31/11; \$30,388). The study is designed to identify the roles of obesity, adipokines, and inflammation in the etiology of migraine.

UAB Center for Aging (Intramural Grant Award) “A nutrition intervention for the prevention of

sarcopenia” (PI: BA Gower, 02/01/08-01/31/12; \$77,000 Direct Costs). The randomized, double-blind clinical trial tested the hypothesis that daily consumption of an amino acid mixture for 6 months would improve lean mass and muscle strength in older adults.

UAB Center for Metabolic Bone Disease “The bone fat pancreas axis: a role for undercarboxylated osteocalcin.” (PI: BA Gower: 11/1/10-10/31/11; \$33,000). Objective: To test the hypothesis that a “bone-fat-pancreas” axis exists in humans; specifically, that undercarboxylated osteocalcin is associated with insulin sensitivity and insulin secretion.

NIDDK (F32 DK082028) “Effects of maternal obesity and gestational diabetes on offspring health.” (PI: PC Chandler-Laney, Mentor: Gower. 02/01/2008-01/31/2011 \$46,826). ADC. The objective of this study is to investigate whether exposure to maternal obesity and gestational diabetes imparts greater risk to the child offspring of becoming obese and insulin resistant compared to exposure to either one, or none, of maternal obesity or gestational diabetes.

CONSULTANT WORK

NIDDK (R01 DK60692) “Exercise dose and insulin sensitivity in obese children.” (PI Catherine L. Davis, PhD, Medical College of Georgia, 06/01/03-04/30/07, \$374,225 annual direct costs). Consultant for insulin sensitivity testing in children, and laboratory analyses of serum samples.

PROFESSIONAL AFFILIATIONS

Member: The Endocrine Society
Member: The American Diabetes Association
Member: The Obesity Society
Member: The American Society for Nutrition

SERVICE

Journals

Referee for journals: *Diabetes, Diabetes Care, Diabetic Medicine, J. Clin. Endocrinol. Metab, Amer. J. Physiol. (Endocrinology and Metabolism), Metabolism, Amer. J. Clin. Nutr, Obesity, Inter. J. Obesity, J. Pediatrics, Pediatric Obesity, Journal of Diabetes Investigation, New England Journal of Medicine.*

Site Visits, Review Committees, Workshops

USDA ARS Review: (2014)
NIH EMNR K 80: Translational Research in Diabetes, Obesity and Endocrinology (2014)
NIH EMNR K 80: Translational Research in Diabetes, Obesity and Endocrinology (2013)
NIH EMNR K 80: Translational Research in Diabetes, Obesity and Endocrinology
NIH U54 Reproductive Medicine study section (2013)
NIH EMNR K 80: Translational Research in Diabetes, Obesity and Endocrinology (2013)
NIH ZRG1 special emphasis panel (2012)
NIH CIDO study section (2012)

NIH NCATS special emphasis panel (2012)
NIH PCOS P50 (2011)
NIH Special Emphasis panel, Aging Systems and Geriatrics (2011)
NIH Clinical and Integrative Diabetes and Obesity (CIDO) Study Section
 Standing member (2006-2010)
 Ad hoc member (2012-2014)
Society for Women's Health Research; Workshop on Sex and Gender Differences in Obesity and Cardiovascular Disease. Nov. 1-4, 2005, Washington, D.C.
NCRR: GCRC site visit team, Univ. Cincinnati (2005).
NIH Center for Scientific Review, Molecular and Cellular Endocrinology (MCE) Study Section (July, 2005)
NIDDK Special Emphasis Review Panel Committee for "Ancillary Studies To Obesity-Related Clinical Trials." (March, 2005)
NIH Center for Scientific Review, Integrated Physiology of Obesity and Diabetes (IPOD) Study Section (October, 2004)
NIDDK Energy Balance P01 ad hoc Review Committee (2003)
NICHD Reproductive Medicine U54 grant ad hoc Review Committee (2002)
NIA R01 AG18198, PI W Kohrt, Univ. Colorado HSC; member, Data Safety and Monitoring Board (2002-)
NIA Pepper Center ad hoc Review Committee (2002)
NCRR: GCRC site visit team, Univ. Colorado HSC (2001).
NIDDK: PPG site visit team, Univ. Washington (2001).
Defense Health Research Program: Diabetes Review Group (2000).
National Science Foundation
 External reviewer of grant proposals
 Special Advisory Panel for Postdoctoral Research Fellowships in Biosciences Related to the Environment (1997-1998)

University Committees

UAB Distinguished Professor Selection Committee (2013-2015)
UAB Center for Research in Women's Health; Advisory Committee member (2006-)
UAB School of Health Professions Promotion and Tenure Guideline Task Force (2003)
UAB Dept. Nutrition Sciences Promotion and Tenure Department Review Committee (Chair; 2001-)
UAB School of Health Professions, Faculty Affairs Committee (member, 2001-2002; Vice-Chair, 2002-2003; Chair, 2003-2004)
UAB School of Health Professions, Dean Search Committee (2000)
UAB School of Health Professions, Honors and Awards Committee (1998-2000)

Professional Societies

American Society for Nutrition, Academic-at-Large member, Energy and Macronutrient Metabolism Research Interest Section (EMM-RIS; 2014-2016).
Association of GCRC Core Laboratories, Secretary (2005-2006)
NAASO, Member, Finance Committee (1998-2004); Chair-Elect (2003-2005); Chair (2005-2007)
Society for the Study of Reproduction
 Chair, Public Affairs Committee (1996-1997)
 Member, Public Affairs Committee (1994-1996)
American Society of Zoologists

Organized workshop for 1995 meeting: “Non-radioactive techniques for hormone assay.”

Faculty Mentorship

- 2015- Ceren Yarar, Instructor, Nutrition Sciences, Mentor
- 2014- Aaron Davis, Assistant Professor, Psychiatry, Mentor
- 2013- Li Li, Assistant Professor, Psychiatry, co-Mentor.
- 2013- Shannon Morrison, Assistant Professor, Nursing, Mentor.
- 2012- Gareth Dutton, Assistant Professor, Preventive Medicine, Mentor, K award.
- 2011- Paula Chandler-Laney, Assistant Professor, Nutrition Sciences, Mentor, K award.
- 2009- Ambika Ashraf, MD, Assistant Professor, Pediatric Endocrinology. Mentor, K award.
- 2003-4 Jamy Ard, MD, Assistant Professor; Mentor Committee, member
- 2003-4 Jose Fernandez, Assistant Professor; Mentor, NORC Pilot / Feasibility award.

PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2006 UAB Safe Zone (September 12, 2006)
- 2006 “Detecting Research Bias and Misconduct;” UAB Center for Ethics and Values in the Sciences (September 14-15, 2006)

GRADUATE COMMITTEE MEMBERSHIPS

Current

- Nate Warren, PhD in Clinical Nutrition – (**Chair**). Mitochondrial function, fuel metabolism, and diabetes risk.
- Sarah Katherine Sweatt, PhD in Clinical Nutrition – (**Chair**). Role of oxidative stress in determining beta-cell responsiveness and metabolic health in women.
- Mariah Cloud, MS in Clinical Nutrition – (**Chair**). Diet quality influences resting energy expenditure and body composition.

Previous (year of graduation indicated)

- 2012- Amy Miskimon Goss, PhD in Clinical Nutrition – (**Chair**). Fat Distribution and Metabolic Health: The Effects of Macronutrient Manipulation on Fat Distribution, Weight Loss, and Glucose Metabolism.
- 2012- Amy Ellis, PhD in Clinical Nutrition – (**Chair**). Influences of habitual diet, ethnicity, and age on circulating total ghrelin.
- 2011- Jessica Alvarez, PhD in Clinical Nutrition – (**Chair**). Vitamin D and insulin sensitivity in African Americans and European Americans.
- 2010- Nikki Bush, PhD in Clinical Nutrition – (**Chair**). Insulin resistance and body composition in African American children exposed to gestational diabetes and obesity in utero.
- 2009- Amy Miskimon, MS in Clinical Nutrition – (**Chair**). Endocrine environment and body composition changes in postmenopausal women.
- 2009- Keertik Fulzele. PhD in Pathology (Tom Clemens, Chair). Insulin and IGF-1 action in bone.
- 2008- Sidney Barnes, MS in Clinical Nutrition – (**Chair**). The prenatal environment

- and infant body composition: role of inflammation and obesity.
- 2007- Jessica Alvarez, MS in Clinical Nutrition – **(Chair)** Anti-inflammatory effect of insulin in African-American and Caucasian children
- 2007- Radhika Phadke, PhD in Nutrition Sciences – **(Chair)** Hyperinsulinemia in African-American children and adults: physiological basis and association with inflammation
- 2007- Tanya Hyatt, PhD in Nutrition Sciences – **(Chair)** Ethnic differences in markers of inflammation with weight loss
- 2007- Laura Lee Thompson, MS in Clinical Nutrition – **(Chair)** Anti-lipolytic effect of insulin in African-American and Caucasian females
- 2007- Paul Higgins, PhD in Nutrition Sciences – **(Chair)** Role of GLP-1 in insulin secretion in African-American and Caucasian children
- 2006- Jeannine Lawrence, PhD in Nutrition Sciences – **(Chair)** Short-term depletion of intramuscular fat with low-fat and low-energy diets: impact on insulin sensitivity, and interactive effects of ethnicity
- 2006- Evita Isip, MS in Clinical Nutrition – **(Chair)** Relationship between insulin, vitamin E, and PAI-1 in African-American and Caucasian women
- 2005- Lara Nyman, PhD in Physiology and Biophysics - CPT-1 and insulin resistance
- 2005- Lori Faulk, MS in Clinical Nutrition – **(Chair)** Physical activity, insulin sensitivity, and cognitive factors in African-American and Caucasian adolescents
- 2004- Suzanne Choquette, MS in Clinical Nutrition – **(Chair)** Role of calcium intake in determining changes in insulin sensitivity with weight loss and re-gain
- 2004- Crystal Clark Douglas, PhD in Clinical Nutrition – **(Chair)** Role of diet in the treatment of polycystic ovary syndrome (PCOS)
- 2004- Nikki Bush, MS in Clinical Nutrition – **(Chair)** Ethnic / gender influences on adiponectin in African-American and Caucasian children
- 2004- K. Nicole Whatley, MS in Clinical Nutrition – **(Chair)** An evaluation of the timing and viability of nateglinide as a replacement for tolbutamide in the frequently-sampled intravenous glucose tolerance test
- 2003- Matt Blaylock, PhD in Nutrition Sciences - The regulation and function of UCP3
- 2003- Michele Shuler, PhD in Comparative Medicine - Relationship between genetic defects in fatty acid oxidation and phenotypes for CVD and diabetes in mouse models
- 2003- Rebecca Lwin, MS in Clinical Nutrition – **(Chair)** Influence of estrogen on 24-hour substrate oxidation
- 2003- Leigh Norris, MS in Clinical Nutrition – **(Chair)** Role of dietary factors in the development and maintenance of androgen disorders in women
- 2003- Rebecca Lane, MS in Clinical Nutrition – **(Chair)** Prediction of visceral fat from anthropometric measurements in adolescents
- 2002- Jaime Merrifield, MS in Clinical Nutrition – **(Chair)** Validation of the Actiwatch activity monitor against doubly-labeled water in young children
- 2000- David Bryan, MS Education - Endocrine determinants of change in body fat distribution with weight loss
- 2000 - Anita Derstine, MS Nutrition Sciences - **(Chair)** Insulin sensitivity in postmenopausal women: effect of body fat distribution, hormone replacement therapy, physical activity, and dietary fat
- 2000 - Min Sun, PhD Nutrition Sciences - **(Chair)** Ethnic differences in energy expenditure
- 2000 - Heather Hunter, MS Biology - Metabolic effects of estrogen and progesterone.

- 2000 - Eric Goetzman, PhD Medical Genetics - Peroxisome-proliferator activated receptors (PPARS) in mouse models of obesity and NIDDM
- 1999 - James Ship, MS Education- Changes in muscle IGF-I mRNA with concentric vs eccentric exercise
- 1998 - Ashley Goodman, MS Education - Hormonal responses to concentric and eccentric exercise
- 1998 - Ching-Yi Ku, MS Nutrition Sciences - **(Chair)** Ethnic differences in insulin secretion and sensitivity in prepubertal children: role of physical fitness and physical activity
- 1998 - Julia M. Jordan, MS Nutrition Sciences – **(Chair)** Effects of weight loss on fat distribution and insulin sensitivity in obese premenopausal women
- 1997 - Charlotte Mayo, PhD Nutrition Sciences - Associations of hormone replacement therapy with body composition in postmenopausal women
- 1997 - Ching-Yi Ku, MS Public Health – Relationships between dietary fat, body fat, and the serum lipid profile in prepubertal children
- 1996 - Michelle Petko, MS Education - Relationship between bone mineral density, body composition, and strength in moderately obese pre-menopausal women involved in a dietary-induced weight loss program

OTHER STUDENTS MENTORED

- 1991-1993 Kristin Wagner, undergraduate, Univ. Delaware, undergraduate research
- 1997-1998 Ailbhe Smith, undergraduate, Univ. Ulster, Nutrition Internship.
- 1998-1999 Emma Kent undergraduate, Univ. Ulster, Nutrition Internship and Honors project.
- 1997-1999 Adetunji Adaraloye, undergraduate, UAB, Dept. Biology, Honors Program.
- 1999-2000 Paul Higgins, undergraduate, Univ. Ulster, Nutrition Internship, Honors project.
- 2001-2002 Eva Potter, undergraduate, Univ. Ulster, Nutrition Internship.
- 2001-2002 Niamh Landy, undergraduate, Univ. Ulster, Nutrition Internship, Honors project.
- 2002-2003 Marianne Walsh, undergraduate, Univ. Ulster, Nutrition Internship
- 2002-2003 Eleanor McCauley, undergraduate, Univ. Ulster, Nutrition Internship
- 2004-2005 Carol Wilson, undergraduate, Univ. Ulster, Nutrition Internship

POSTDOCTORAL FELLOWS MENTORED

- 2000-2001 A. Julian Munoz, MD, MSPH
- 2003-2004 Xiuxiang Jiao, MD, PhD
- 2004-2006 Bovorn Sirikul, PhD
- 2005-2006 Crystal Douglas, PhD
- 2006-2007 Jeannine Lawrence, PhD
- 2006-2010 Krista Casazza, PhD (secondary mentor; with J. Fernandez)
- 2006-2011 Paula Chandler-Laney (co-mentor with Gary Hunter)
- 2010-2012 Gordon Fisher (co-mentor with Gary Hunter)
- 2012- Amy Goss, PhD
- 2012- Holly Resuehr (co-mentor with Gordon Fisher and Gary Hunter)
- 2013- Nikki Bush, PhD

PEER-REVIEWED PUBLICATIONS

1. Chandler-Laney PC, Biggio JR, Granger WM, Mancuso M, Schneider CR, **Gower BA**. 2015. Association of late-night carbohydrate intake with glucose tolerance among pregnant African American women. *Maternal & Child Nutrition*, in press.
2. Chai NC, Gelaye B, Tietjen GE, Dash P, **Gower BA**, White LW, Ward TN, Scher AI, Peterlin BL. Ictal Adipokines are Associated with Pain Severity and Treatment Response in Episodic Migraine. *Neurology*, in press.
3. Chandler-Laney PC, Morrison SA, Goree LL, Ellis AC, Casazza K, Desmond R, **Gower BA**. 2014. Return of hunger following a relatively high carbohydrate breakfast is associated with earlier recorded glucose peak and nadir. *Appetite* 80:236-41.
4. **Gower BA**, Goss AM. A lower-carbohydrate, higher-fat diet reduces abdominal and inter-muscular fat and increases insulin sensitivity in adults at risk for type 2 diabetes. *J. Nutrition*. ePub ahead of print. PMC4264021.
5. Goss AM, Chandler-Laney PC, Ovalle F, Goree LL, Azziz R, Desmond RA, Bates GW, **Gower BA**. 2014. Effects of a eucaloric reduced-carbohydrate diet on body composition and fat distribution in women with PCOS. *Metabolism* 63(10):1257-64.
6. Ellis AC, et al. 2014. Cardiorespiratory fitness in older adult women: relationships with serum 25-hydroxyvitamin D. *Endocrine* 47(3):839-44.
7. Ashraf A, Huisingh C, Alvarez JA, Wang X, **Gower BA**. 2014. Insulin resistance indices are inversely associated with vitamin D binding protein concentrations. 2014. *J. Clin. Endo. Metab.* 99:178-83.
8. Chandler-Laney PC, Higgins PB, Granger W, Alvarez J, Casazza K, Fernandez JR, Dalla Man C, Cobelli C, **Gower BA**. 2014. Use of a simple liquid meal test to evaluate insulin sensitivity and beta-cell function in children. *Pediatr Obes.* 9:102-10.
9. **Gower BA** Casazza K. 2013. Divergent effects of obesity on bone health. 2013. *J. Clin. Densitometry*, 16:450-4.
10. **Gower BA**, Pollock NK, Casazza K, Clemens TL, Goree LL, Granger WM. 2013. Associations of total and undercarboxylated osteocalcin with peripheral and hepatic insulin sensitivity and β -cell function in overweight adults *J. Clin. Endo. Metab.*, 98:E1173-80.
11. **Gower BA**, Chandler-Laney PC, Ovalle F, Goree LL, Azziz R, Desmond RA, Granger WM, Goss AM, Bates GW. 2013. Favourable metabolic effects of a eucaloric lower-carbohydrate diet in women with PCOS. *Clin. Endocrinol.* 79:550-557.

12. Peterlin BL, Tietjen GE, **Gower BA**, Ward TN, Tepper SJ, White LW, Dash PD, Hammond ER, Haythornthwaite JA. 2013. Ictal Adiponectin Levels in Episodic Migraineurs: A Randomized Pilot Trial. *Headache*. 53:474-90.
13. **Gower BA**, Alvarez JA, Bush NC, Hunter GR. 2013. Insulin sensitivity affects propensity to obesity in an ethnic-specific manner: results from two controlled weight loss intervention studies. *Nutr. Metab.*, 10:3. doi: 10.1186/1743-7075-10-3.
14. Yang Y., Buys D.R., Judd S., **Gower, B.A.**, Locher J.L. 2012. Favorite foods of older adults living in the Black Belt region of the United States: influences of ethnicity, gender, and education. *Appetite*, 63C:18-23.
15. Dennis BA, Ergul A, **Gower BA**, Allison JD, Davis CL. 2013. Oxidative stress and cardiovascular risk in overweight children in an exercise intervention program. *Child Obes*. 9:15-21.
16. Davis CL, Pollock NK, Waller JL, Allison JD, Dennis BA, Bassali R, Melendez A, Boyle CA, **Gower BA**. 2012. Exercise dose and diabetes risk in overweight and obese children: a randomized controlled trial. *JAMA* 308:1103-12.
17. Ashraf AP, Fisher G, Alvarez J, Dudenbostel T, Calhoun DA, Szalai AJ, **Gower BA**. 2012. Associations of C-reactive protein to indices of vascular health and the influence of serum 25(OH)D status in healthy adults. *J. Nutr. Metab.* 2012:475975.
18. Chandler-Laney PC, Bush NC, WM, Rouse DJ, Mancuso MS, **Gower BA**. 2014. Gut hormone activity of children born to women with and without gestational diabetes. *Pediatric Obesity*, 9:53-62.
19. Goss AM, Goree LLT, Ellis AC, Chandler-Laney PC, Casazza K, Lockhart M, **Gower BA**. 2013. Effects of diet macronutrient composition on body composition and fat distribution during weight maintenance and weight loss. *Obesity*, 21:1139-42.
20. Azrad M, **Gower BA**, Hunter GR, Nagy TR. 2013. Racial differences in adiponectin and leptin in healthy premenopausal women. *Endocrine* 43:586-92.
21. Hamilton K, Fisher G, Roy J, **Gower BA**, Hunter GR. 2013. The Effects of Weight Loss on Relative Bone Mineral Density in Premenopausal Women. *Obesity*, 21:441-8.
22. Goss AM, **Gower BA**. 2012. Insulin sensitivity is associated with thigh adipose tissue. *Metabolism* 61:1817-23
23. Ellis, A, Casazza K, Chandler-Laney P, **Gower B**. 2012. Higher postprandial serum ghrelin among African American females before puberty. *Journal of Pediatric Endocrinology and Metabolism* 25:691-6.
24. Alvarez JA, **Gower BA**, Calhoun DA, Judd SE, Dong Y, Dudenbostel T, Scholl J, Ashraf AP. 2012. Serum 25(OH)D and ethnic differences in arterial stiffness and endothelial function. *Journal of Clinical Medicine Research*. 4:197-205. PMID: PMC3376878.

25. Chandler-Laney, **Gower BA**, Fields D. 2013. Gestational and early life influences on infant body composition at one year. *Obesity* 21:144-8.
26. Ellis AC, Chandler-Laney P, Casazza K, Goree LL, **Gower BA**. 2012. Effects of habitual diet on ethnic differences in serum total ghrelin. *Endocrine* 42:359-65.
27. Ellis AC, Chandler-Laney P, Casazza K, Goree LL, McGwin G, **Gower BA**. 2012. Circulating ghrelin and GLP-1 are not affected by habitual diet. *Regulatory Peptides*. 176:1-5.
28. **Gower BA**, Goree LL, Fisher G, Ballinger S. 2011. Could lowering dietary fat intake reduce diabetes risk even if it doesn't lead to weight loss? *Diabetes Management* 1:547-550.
29. Fisher G, Hunter GR, **Gower BA**. 2012. Aerobic Exercise Training Conserves Insulin Sensitivity for One Year Following Weight Loss in Overweight Women. *J. Appl. Physiol.* 112:688-693.
30. Azrad M, **Gower BA**, Hunter GR, Nagy TR. 2012. Intra-abdominal adipose tissue is independently associated with sex-hormone binding globulin in premenopausal women. *Obesity*. 20:1012-1015.
31. Goss AM, Darnell BE, Brown MA, Oster RA, **Gower BA**. 2012. Longitudinal associations of the endocrine environment on fat partitioning in postmenopausal women. *Obesity* 20:939-944
32. Ellis AC, Alvarez JA, Granger WM, Ovalle F, **Gower BA**. 2012. Ethnic differences in glucose disposal, hepatic insulin sensitivity, and endogenous glucose production among African American and European American women. *Metabolism*. 61:634-40. PMID: PMC3288425.
33. Chandler-Laney PC, Bush NC, Granger WM, Rouse DJ, Mancuso MS, **Gower BA**. 2012. Overweight status and intrauterine exposure to gestational diabetes are associated with children's metabolic health. *International Journal of Pediatric Obesity* 7:44-52.
34. Nyman LR, Tian L, Hamm DA, Schoeb TR, **Gower BA**, Nagy TR, Wood PA. 2011. Long-term effects of high-fat or high-carbohydrate diets on glucose tolerance in mice with heterozygous CPT-1a deficiency: Diet influences on CPT-1a deficient mice. *Nutrition and Diabetes* 1:e14.
35. Fisher G, Alvarez JA, Ellis AC, Granger WM, Ovalle F, Dalla Man, Cobelli C, **Gower BA**. 2012. Race Differences in the Associations of Oxidative Stress and Insulin Sensitivity. *Obesity* 20:972-977.
36. **Gower BA**, Goree LLT, Chandler-Laney PC, Ellis AC, Casazza K, Granger WM. 2011. A higher-carbohydrate lower-fat diet reduces fasting glucose concentration and improves β -cell function in individuals with impaired fasting glucose. *Metabolism*, 61:358-65. PMID: PMC3248972.
37. Azrad M, Chang PL, **Gower BA**, Hunter GR, Nagy TR. 2011. Reduced mitogenicity of sera following weight loss in premenopausal women. *Nutrition and Cancer*, 63(6):916-23. PMID:PMC3209713.
38. Ashraf AP, Alvarez JA, **Gower BA**, Saens KH, McCormick KL. 2011. Associations of serum 25-

hydroxyvitamin D and components of the metabolic syndrome in obese adolescent females. *Pediatric Obesity*, Epub ahead of print. PMID:21546933

39. Goree LLT, Chandler-Laney PC, Ellis AC, Casazza K, Granger WM, **Gower BA**. 2011. Dietary macronutrient composition affects β -cell responsiveness but not insulin sensitivity. *Am. J. Clin. Nutr.*, 94(1):120-7. PMID:PMC3127518
40. Pollock NK, Bernard PJ, **Gower BA**, Gundberg CM, Wenger K, Misra S, Basuli R, Davis CL. 2011. Lower uncarboxylated osteocalcin concentrations in children with prediabetes is associated with beta-cell function. *J. Clin Endocrinol Metab.*, 96(7):E1092-9. PMID:PMC3135188
41. Bush NC, Chandler-Laney PC, Rouse DJ, Granger WM, Oster RA, **Gower BA**. 2011. Higher maternal gestational glucose concentration is associated with lower offspring insulin sensitivity and altered β -cell function. *J. Clin. Endocrinol. Metab.*, 96:803-9. PMID:PMC3176781
42. Fisher G, Hyatt T, Hunter GR, Oster RA, Desmond RA, **Gower BA**. 2012. Markers of inflammation and fat distribution following weight loss in African American and Caucasian women. *Obesity* 20:715-20. PMID:21527894
43. Fisher G, Hyatt T, Hunter GR, Oster RA, Desmond RA, **Gower BA**. 2011. Effect of diet with and without exercise training on markers of inflammation and fat distribution in overweight women. *Obesity* 19:1131-6. PMID:PMC3102145
44. Chandler-Laney PC, Bush NC, Rouse DJ, Mancuso MS, **Gower BA**. 2011. Maternal glucose concentration during pregnancy predicts fat and lean mass of prepubertal offspring. *Diabetes Care*, 34:741-5. PMID:PMC3041219
45. Del Corral P, Bryan DR, Garvey WT, **Gower BA** Hunter GR. 2011. Dietary adherence during weight loss predicts weight re-gain. *Obesity*, 19(6):1177-81. PMID:21164500
46. Casazza K, Granger WM, Wallace S, **Gower, BA**. 2011. Can reduction in Dietary carbohydrate play a role in normalizing the endocrine-metabolic state perturbed during the pubertal transition? The PRIMO Pilot Study. *Infant, Child, & Adolescent Nutrition*, 3:31-37. PMC in process.
47. Casazza K, RD, Cardel M, Dulin-Keita A, Hanks LJ, Wallace S, **Gower BA**, Fernandez JR. 2012. Reduced carbohydrate diet to improve metabolic outcomes and decrease adiposity in obese peri-pubertal African American girls. *J Ped Gastro Nutr.* 54:336-342. PMID pending.
48. Cardel M, Higgins PB, Willig AL, Keita AD, Casazza K, **Gower BA**, Fernández JR. 2011. African genetic admixture is associated with body composition and fat distribution in a cross-sectional study of children. *Int. J. Obes.* 35:60-65. PMID:20877287
49. Chandler-Laney P, Phadke R, Granger W, Fernández J, Muñoz AJ, Dalla Man C, Cobelli C, Ovalle F, **Gower BA**. 2011. Age-related changes in insulin sensitivity and β -cell function among European American and African American women. *Obesity*, 19:528-35. PMID: PMC3074467
50. Lawrence JC, **Gower BA**, Garvey WT, Munoz AJ, Darnell BE, Oster RA, Buchthal SD, Goran MI, Newcomer BR. 2010. Relationship between insulin sensitivity and muscle lipids may differ with muscle group and ethnicity. *The Open Obesity Journal.* 2:137-144. PMID: PMC3202241
51. Alvarez JA, Ashraf AP, Hunter GR, **Gower BA**. 2010. Serum 25-hydroxyvitamin D and parathyroid hormone are independent determinants of whole-body insulin sensitivity in women and may contribute to lower insulin sensitivity among African Americans. *Am. J. Clin. Nutr.*, 92:1344-9. PMID:PMC2980959

52. Chandler-Laney PC, Brock DW, **Gower BA**, Alvarez JA, Bush NC, Hunter GR. 2010. Self-reported low vitality, poor mental health, and low dietary restraint are associated with over-perception of physical exertion. *Journal of Obesity*, pii:207451. PMID:PMC2948900
53. Dulin-Keita A, Casazza C, Fernandez JR, Goran MI, **Gower BA**. 2010. Do neighborhoods matter? Neighborhood disorder and long-term trends in serum cortisol levels. *J. Epidem. Commun. Health*, Epub ahead of print. PMID:2073487
54. Brock DW, Irving BA, **Gower BA**, Hunter GR. 2011. Differences emerge in visceral adipose tissue accumulation after selection for innate cardiovascular fitness. *International Journal of Obesity*, February; 35(2): 309–312. PMID:PMC2982865
55. Bush NC, Alvarez JA, Hunter GR, Brock DW, Chandler-Laney PC, **Gower BA**. 2010. Ethnicity-specific anthropometric predictors of metabolic risk in women. *International Journal of Body Composition Research*, 8:69-74. PMID:PMC3172136
56. Lawrence JC, Newcomer BR, Buchthal SD, Sirikul B, Oster RA, Hunter GR, **Gower BA**. 2011. Relationship of intramyocellular lipid to insulin sensitivity may differ with ethnicity in healthy girls and women. *Obesity*, 19(1):43-8. PMID: PMC3204213
57. Santen RJ, Allred DC, Ardoin SP, Archer DF, Boyd N, Braunstein GD, Burger HG, Colditz GA, Davis SR, Gambacciani M, **Gower BA**, Henderson VW, Jarjour WN, Karas RH, Kleerekoper M, Lobo RA, Manson JE, Marsden J, Martin KA, Martin L, Pinkerton JV, Rubinow DR, Teede H, Thiboutot DM, Utian WH; Endocrine Society. 2010. Postmenopausal hormone therapy: an Endocrine Society scientific statement. *J. Clin. Endocrinol. Metab.*, 95(7 Suppl 1):s1-s66. PMID:20566620
58. Pollock NK, Bernard PJ, Wenger K, Misra S, **Gower BA**, Allison JD, Zhu H, Davis CL. 2010. Lower bone mass in prepubertal overweight children with pre-diabetes. *J. Bone Min Res.*, 25:2484-93. PMID:PMC3122138
59. Ellis AC, Hyatt TC, Hunter GR, **Gower BA**. 2010. Respiratory quotient predicts fat mass gain in premenopausal women. *Obesity*, 18:2255-2259. PMID:PMC3075532
60. Alvarez JA, Bush NC, Choquette SS, Hunter GR, Darnell BE, Oster RA, and **Gower BA**. 2010. Vitamin D intake is associated with insulin sensitivity in African American, but not European American, women. *Nutrition & Metabolism*, 7:28. PMID:PMC2868016
61. Chandler-Laney P, Phadke R, Granger W, Muñoz AJ, Dalla Man C, Cobelli C, Ovalle F, Fernández J, **Gower BA**. 2010. Adiposity and β -cell function: relationships differ with ethnicity and age. *Obesity*, 18:2086-92. PMID:PMC3074461
62. Bush NC, Alvarez JA, Choquette SS, Hunter GR, Oster RA, Darnell BE, **Gower BA**. 2010. Dietary calcium intake is associated with less gain in intra-abdominal adipose tissue over 1 yr. *Obesity*, 18:2101-4. PMID:PMC2902577
63. **Gower BA**, Hunter GR, Chandler-Laney P, Alvarez J, Bush N. 2010. Glucose metabolism and diet predict changes in adiposity and fat distribution in weight-reduced women. *Obesity*, 18:1532-1537. PMID:PMC3070365
64. Casazza K, Willig A, **Gower BA**, Nagy TR, Hunter GR, Wallace S, Amaya M, Franklin F, Beasley M, Fernandez JR. 2010. The role of European genetic admixture in the etiology of the insulin resistance syndrome in children. Are the effects mediated by fat accumulation? *J. Pediatrics*, 157:50-56. PMID:PMC3119818

65. Goree LL, Darnell BE, Oster RA, Brown MA, **Gower, BA**. 2010. Association of free fatty acids with insulin secretion and action among African American and European American girls and women. *Obesity*, 18:247-53. PMID:PMC2814008
66. Casazza K, Dulin-Keita A, **Gower BA**, Fernandez JR. 2009. Intra-abdominal fat is related to metabolic risk factors in Hispanic Americans, African Americans, and in girls. *Acta Paediatr.*, PMID:PMC2921892
67. Hunter GR, Chandler-Laney P, Brock DW, Lara-Castro C, Fernandez JR, **Gower BA**. 2010. Fat distribution, aerobic fitness, blood lipids and insulin sensitivity in African American and European American women. *Obesity*, 18:274-81. PMID:PMC2813936
68. Hunter GR, Brock DW, Byre NM, Chandler-Laney P, Del Corral P, **Gower BA**. 2010. Exercise training prevents regain of visceral fat for 1-year following weight loss. *Obesity*, 18: 690-5. PMID:PMC2913900
69. Willig AL, Casazza K, Divers J, Bigham AW, **Gower BA**, Hunter GR, Fernandez JR. 2009. Uncoupling protein 2 Ala55Val polymorphism is associated with a higher acute insulin response to glucose. *Metabolism*, 58:877-881. PMID:PMC2704067
70. Ashraf A, Alvarez J, Saenz K, **Gower BA**, McCormick K, Franklin F. 2009. Threshold for effects of vitamin D deficiency on glucose metabolism in obese female African American adolescents. *J Clin Endocrinol Metab.*, 94:3200-06. PMID:PMC2819826
71. Brock DW, Chandler-Laney P, Alvarez JA, **Gower BA**, Gaesser GA, Hunter GR. 2010. Perception of exercise difficulty predicts weight regain in formerly overweight women. *Obesity*, 18:982-6. PMID:PMC2924634
72. Bassali R, Waller JL, **Gower B**, Allison J, Davis CL. 2010. Clinical utility of waist circumference percentile for cardiovascular risk evaluation in obese children. *International Journal of Pediatric Obesity*, 5(1): 97–101 PMID:PMC2851850
73. Chandler-Laney P, Hunter GR, Bush NC, Alvarez J, Roy JL, and **B.A. Gower**. 2009. Ethnic differences in body size dissatisfaction and perceived dietary control are not explained by differences in dieting history. *Eating Behavior*, 10(4); 202-8. PMID:PMC2752653
74. Shikany JM, Phadke RP, Redden DT, **Gower BA**. 2009. Effects of low- and high-glycemic index/glycemic load diets on coronary heart disease risk factors in overweight/obese men. *Metabolism*, PMID:PMC2936248
75. Casazza K, Natour N, Divers J, Vaughn LK, Bigham AW, **Gower BA**, Hunter G, Fernández JR. 2009. Triacylglycerol concentration may be influenced in part by variation in the LPL gene. *The Open Obesity Journal*, 1:23-31.
76. Casazza K, **BA Gower**, Willig AL, Hunter GR, Fernandez JR. 2009. Physical fitness, activity, and insulin dynamics in early pubertal children. *Ped Ex Sci.*, 21:63-76. PMID:PMC2918229
77. Casazza K, Dulin-Keita A, **Gower BA**, Fernández JR. 2009. Relationships between reported macronutrient intake and insulin dynamics in a multi-ethnic cohort of early pubertal children. *Int J Pediatr Obes.*, 4:249-56. PMID:PMC2918230
78. Casazza K, Dulin-Keita A, **Gower BA**, Fernandez JR. 2009. Intra-abdominal fat is related to metabolic risk factors in Hispanic Americans, African Americans, and in girls. *Acta Paediatr.*, 98:1965-71. PMID:PMC2921892

79. Alvarez JA, Higgins PB, Oster RA, Fernández JR, Darnell BE, **Gower BA**. 2009. Fasting and postprandial markers of inflammation in lean and overweight children. *Am J Clin Nutr.*, 89:1138-1144. PMID:2667459
80. Del Corral P, Chandler-Laney P, Casazza K, **Gower BA**, Hunter GR. 2009. Effect of dietary adherence with or without exercise on weight loss: a mechanistic approach to a global problem. *J. Clin. Endo. Metab.*, 94:1602-1607. PMID:PMC2684471
81. Thomas AS, Greene LF, Ard JD, Oster RA, Darnell BE, Goran MI, **Gower BA**. 2009. Physical activity may facilitate diabetes prevention in adolescents. *Diabetes Care*, 32:9-13. PMID: PMC2606821
82. St-Onge M-P, Goree LL, **Gower BA**. 2009. High milk supplementation with healthy diet counseling does not improve weight loss but ameliorates insulin action compared to low milk supplementation in overweight children. *J Nutr*, 139:933-938. PMID:PMC2714393
83. Casazza K, R.P. Phadke, J.R. Fernandez, R.M. Watanabe, M.I. Goran, **B.A Gower**. 2009. Obesity attenuates the contribution of African admixture to the insulin secretory profile in peripubertal children: a longitudinal analysis. *Obesity*, 17:1318-1325. PMID:PMC2938182
84. Casazza K, Thomas O, Dulin-Keita A, del Corral P, **Gower BA**, Fernandez JR. 2008. Characterization of the metabolic syndrome in a multi-ethnic sample of children: Is it useful? *The Open Obesity Journal*.
85. Chandler-Laney PC, Hunter GR, Ard JD, Roy JL, Brock DW, **Gower BA**. 2009. Perception of others' body size influences weight loss and regain for European American but not African American women. *Health Psychology*, 28:414-418. PMID:PMC2711516
86. Hyatt T, Phadke R, Hunter GR, Bush N, Munoz AJ, **Gower BA**. 2009. Insulin sensitivity in African-American and Caucasian women: association with inflammation. *Obesity*, 17:276-282. PMID:PMC2748773
87. Casazza K, Dulin-Keita A, **Gower BA**, Fernandez JR. 2009. Differential impact of diet and physical activity on components of metabolic syndrome in a multi-ethnic sample of children. *JADA*, 109:236-44. PMID:PMC2743425
88. Casazza K, Higgins PB, Fernández JR, Goran MI, **Gower BA**. 2008. Longitudinal analysis of the insulin-like growth factor system in African American and European American children and adolescents. *J Clin Endo Metab.*, 93:4917-4923. PMID:PMC2626444
89. De Luca M, Moses Chambers M, Casazza K, Lok KH, Hunter GR, **Gower BA**, Fernandez JR. 2008. Genetic variation in a member of the laminin gene family affects variation in body composition in Drosophila and humans. *BMC Genet.*, 9:52. PMID:PMC2533007
90. Higgins PB, Fernandez JR, Garvey WT, Granger WM, **Gower BA**. 2008. Entero-insular axis and postprandial insulin differences in African American and European American children. *Amer. J. Clin. Nutr.*, 88:1277-1283. PMID:PMC2785031
91. Alvarez JA, Bush NC, Hunter GR, Brock DW, **Gower BA**. 2008. Ethnicity and weight status impact the accuracy of proxy indices of insulin sensitivity. *Obesity*, 16:2737-2744. PMID: PMC2779542

92. Casazza K, **Gower BA**, Willig AL, Hunter G, Fernández JR. 2009. Physical fitness, activity, and insulin dynamics in early pubertal children. *Ped Ex Sci.*, 21:63-76. PMID: PMC2918229
93. Lara-Castro C, Doud EC, Tapia PC, Munoz AJ, Fernandez JR, Hunter GR, **Gower BA**, Garvey WT. 2008. Adiponectin multimers and metabolic syndrome traits: relative adiponectin resistance in African-Americans. *Obesity*, 16:2616-2623. PMID:PMC2721223
94. GR Hunter, NM Byrne, B Sirikul, JR Fernandez, PA Zuckerman, BE Darnell, **BA Gower**. 2008. Resistance training conserves fat-free mass and resting energy expenditure following weight loss *Obesity*, 16:1045-1051. PMID:18356845
95. Casazza KR, Goran MI, **Gower BA**. 2008. Associations among insulin, estrogen, and fat mass gain over the pubertal transition in African American and European American girls. *J. Clin. Endo. Metab.*, 93:2610-2615. PMID:PMC2453051
96. Ovalle F, Vaughan TB, Sohn JE, **Gower B**. 2008. Catamenial diabetic ketoacidosis and catamenial hyperglycemia: case report and review of the literature. *Am. J. Med. Sci.*, 335(4):298-303. PMID:18414069
97. St-Onge MP, Desmond R, Hunter G, **Gower BA**. 2008. Baseline inflammatory markers do not modulate lipid response to weight loss. *Metabolism*, 57:598-604. PMID:18442620
98. Blaudeau TE, Hunter GR, St-Onge M-P, **Gower BA**, Roy J, Bryan D, Zuckerman P, Darnell B. 2008. IAAT, catecholamines, and parity in African-American and European-American women. *Obesity*, 16:797-803. PMID:18239569
99. St-Onge M, Aban I, Bosarge A, **Gower B**, Hecker KD, Allison D B. 2007. Snack chips fried in corn oil alleviate cardiovascular risk factors when substituted for low-fat or high-fat snacks. *Amer. J. Clin. Nutr.*, 85:1503-1510. PMID:17556685
100. St-Onge M, Newcomer BR, Buchthal S, Aban I, Allison DB, Bosarge A, **Gower BA**. 2007. Intramyocellular lipid is lower with a low-fat diet but this may not be relevant for health. *Amer. J. Clin. Nutr.*, 86:1316-22. PMID:17991641
101. Lwin R, Darnell B, Oster RA, Lawrence J, Foster J, Azziz R, **Gower BA**. 2008. The effect of oral estrogen on substrate utilization in postmenopausal women. *Fertility and Sterility*, 90:1275-1278. PMID:18001731
102. **Gower BA**, Ard J, Hunter GR, Fernandez JR, Ovalle F. 2007. Elements of the Metabolic Syndrome: Association with Insulin Sensitivity, and Effects of Ethnicity. *Metabolic Syndrome and Related Disorders*, 5(1):77-86.
103. Douglas CC, Lawrence JC, Bush NC, Oster RA, **Gower BA**, Darnell BE. 2007. Ability of the Harris Benedict formula to predict energy requirements differs with weight history and ethnicity. *Nutr Res.*, 27:194-199. PMID:PMC2598419
104. Gutin B, Johnson M, Humphries M, Hatfield-Laube J, Kapuku G, Allison J, **Gower BA**, Daniels S, Barbeau P. 2007. Relations of visceral adiposity to cardiovascular disease risk factors in black and white teens. *Obesity*, 15:1029-35. PMID:17426339

105. Alarcon ML, Hunter GR, **Gower BA**, Fernandez JR. 2007. IGF-I polymorphism is associated with lean mass, exercise economy and performance among premenopausal women. *Arch Med Res.*, 38:56-63. PMID:PMC1831461
106. Hunter GR, Byrne NM, **Gower BA**, Sirikul B, Hills AP. 2006. Increased resting energy expenditure 19 hours following 40 minutes aerobic but not resistance exercise. *Obesity*, 14:2018-25.
107. Munoz AJ, Lok KH, **Gower BA**, Fernandez JR, Hunter GR, Lara-Castro C, De Luca M, Garvey WT. 2006. A polymorphism in the transcription factor 7-like 2 (TCF7L2) gene is associated with reduced insulin secretion in non-diabetic women. *Diabetes*, 55:3630-3634.
108. Higgins PB, Silva AM, Sardinha LB, Hull HR, Goran MI, **Gower BA**, Fields DA. 2006. Validity of new child-specific thoracic gas volume prediction equations. *BMC Pediatrics*, 6:18. PMID: 1526421
109. Douglas CC, **Gower BA**, Darnell BE, Ovalle F, Oster RA, Azziz R. 2006. Role of diet in the treatment of polycystic ovary syndrome (PCOS) *Fertil Steril.*, 85:679-88.
110. Douglas CC, Norris LE, Oster RA, Darnell BE, Azziz R, **Gower BA**. 2006. Difference in dietary intake between women with polycystic ovary syndrome and healthy controls. *Fertil Steril.*, 86:411-417. PMID:16500338
111. **Gower BA**, Muñoz J, Desmond R, Hilario-Hailey T, Jiao X. 2006. Temporal changes in intra-abdominal fat and associated risk factors in early postmenopausal women: effects of hormone use. *Obesity*, 14:1046-55.
112. Sirikul B, **Gower BA**, Hunter GR, Larson-Meyer DE, Newcomer B. 2006. Relationship between insulin sensitivity and in vivo mitochondrial function in skeletal muscle. *Amer. J. Physiol. Endocrinol Metab.*, 291:E724-8. PMID:16705059
113. Wilson CP, Petri RM, **Gower BA**. 2006. Half-body scans are a valid alternative to whole-body scans when estimating body composition by dual-energy X-ray absorptiometry. *Int. J. Body Comp. Res.*, 4:75-80.
114. Ball GD, Huang TTK, **Gower BA**, Cruz ML, Shaibi GQ, Weigensberg MJ, Goran MI. 2006. Longitudinal changes in insulin sensitivity, insulin secretion, and β -cell function during puberty. *J Pediatr.*, 148:16-22. PMID:16423592
115. Huffman DM, Landy NM, Potter E, Nagy TR, **Gower BA**. 2005. Comparison of the Lunar DPX-L and Prodigy dual-energy X-ray absorptimeters for assessing total and regional body composition. *Int. J. Body Comp Res.*, 3:25-30.
116. Weigensberg MJ, Ball GDC, Shaibi GQ, Ryabets-Lienhard A, Cruz ML, **Gower BA**, Goran MI. 2005. Dietary fat intake and insulin resistance in Black and White children. *Obesity Res.*, 13:1630-7. PMID:16222067
117. Bush N, Darnell BE, Oster R, Goran M, **Gower BA**. 2005 Adiponectin is lower among African-Americans, and is independently related to insulin sensitivity in children and adolescents. *Diabetes*, 54:2772-2778. PMID:16123368

118. Lara-Castro C, Hunter GR, Lovejoy JC, **Gower BA**, Fernandez JR. 2005. Apolipoprotein A-II polymorphism and visceral adiposity in African-American and white women. *Obes Res.*, 13:507–512.
119. Schuler MA, **Gower BA**, Matern D, Rinaldo P, Vockley J, Wood PA. 2005. Synergistic heterozygosity in mice with inherited enzyme deficiencies of mitochondrial fatty acid beta-oxidation. *Molec. Genet. Metab.*, 85:7-11. PMID:15862275
120. Higgins PB, Fernandez JR, Goran MI, **Gower BA**. 2005. Early ethnic difference in insulin-like growth factor-1 is associated with African genetic admixture. *Pediatric Res.*, 58:850-4. PMID: 16183814
121. Schuler AM, **Gower BA**, Matern D, Rinaldo P, Wood PA. 2004. Influence of dietary fatty acid chain-length on metabolic tolerance in mouse models of inherited defects in mitochondrial fatty acid beta-oxidation. *Mol Genet Metab.*, 83:322-9. PMID:15589119
122. Lara-Castro C, Hunter GR, Lovejoy JC, **Gower BA**, Fernández JR. 2005. Association of the intestinal fatty acid binding protein Ala54Thr polymorphism and abdominal adipose tissue in African American and Caucasian Women. *J. Clin. Endo. Metab.*, 90:1196-201. PMID:15572430
123. Gutin B, Yin Z, Humphries MC, Hoffman WH, **Gower B**, Barbeau P. 2004. Relations of fatness and fitness to fasting insulin in black and white adolescents. *J. Pediatrics*, 145:737-743. PMID: 15580193
124. Lopez-Alarcon M, Merrifield J, Fields DA, Hilario-Hailey T, Franklin FA, Shewchuk RM, Oster RA, **Gower BA**. 2004. Ability of the Actiwatch accelerometer to predict free-living energy expenditure in young children. *Obesity Res*, 12:1859-65. PMID:15601983
125. Fenster CP, Darley-USmar, VM, Landar AL, **Gower BA**, Weinsier RL, Hunter GR, Patel RP. 2004. Weight loss and race modulate nitric oxide metabolism in overweight women. *Free Radical Biology and Medicine*, 37:695-702. PMID:15288126
126. Gutin B, Yin Z, Humphries M, Hoffman W, **Gower B**, Barbeau P. 2004. Relations of fatness and fitness to fasting insulin in black and white adolescents. *J. Pediatr*, 145:737-43. PMID:15580193
127. Walsh MC, Hunter GR, Sirikul B, **Gower BA**. 2004. Comparison of self-reported with objectively-assessed energy expenditure in black and white women before and after weight loss. *Am. J. Clin. Nutr*, 79:1013-1019. PMID:15159231
128. Brady LM, Lovegrove SS, Lesauvage SV, **Gower BA**, Minihane AM, Williams CM, Lovegrove JA. 2004. Increased n-6 polyunsaturated fatty acids do not attenuate the effects of long-chain n-3 polyunsaturated fatty acids on insulin sensitivity or triacylglycerol reduction in Indian Asians. *Am. J. Clin. Nutr*, 79:983-991. PMID:15159227
129. Brady LM, **Gower BA**, Lovegrove SS, Williams CM, Lovegrove JA. 2004. Revised QUICKI provides a strong surrogate estimate of insulin sensitivity when compared with the minimal model. *Int. J. Obes. Relat. Metab. Disord.*, 28:222-227. PMID:14708032

130. Schuler M, Barnes S, **Gower BA**, Wood PA. 2004. Dietary phytoestrogens increase metabolic resistance (cold tolerance) in long-chain acyl-CoA dehydrogenase deficient mice. *J. Nutr.*, 134:1028-1031. PMID:15113940
131. Johnson MS, Onorato DP, **Gower BA**, Nagy, TN. 2004. Weight change affects serum leptin and corticosterone in the collared lemming. *Gen. Comp. Endocrinol.*, 136:30-36. PMID:14980794
132. Goetzman ES, Tian L, Nagy TR, **Gower BA**, Schoeb TR, Elgavish A, Acosta EP, Saag MS, Wood PA. 2003. HIV protease inhibitor Ritonavir induces lipoatrophy in male mice. *AIDS Research and Human Retrovirus*, 19:1141-1150. PMID:14709251
133. **Gower BA**, Fernandez JR, Beasley TM, Shriver MD, Goran MI. 2003. Using genetic admixture to explain racial differences in insulin-related phenotypes. *Diabetes*, 52:1047-1051. PMID 12663479.
134. **Gower BA**, Higgins, PB. 2003. Energy balance, body composition, and puberty in children and adolescents: importance of ethnicity. *Curr. Opin. Endocrinol. Diabetes*, 10:9-22.
135. Bamman MM, Hill VJ, Adams GR, Haddad F, Wetzstein CJ, **Gower BA**, Ahmed A, Hunter GR. 2003. Gender differences in resistance-training-induced myofiber hypertrophy among older adults. *J. Gerontol.: Biol. Sci.*, 58A:108-116. PMID:12586847
136. Munoz J., **Gower BA**. 2003. Relationship between serum leptin concentration and low-density muscle in postmenopausal women. *J. Clin. Endo. Metab.*, 88:1157-1161. PMID: 12629099
137. Goran MI, Coronges K, Bergman RN, Cruz ML, **Gower BA**. 2003. Influence of family history of type 2 diabetes on insulin sensitivity in pre-pubertal children. *J. Clin. Endo. Metab.*, 88: 192--195
138. Huang TT-K, Johnson MS, **Gower BA**, Goran MI. 2002. Effect of changes in fat distribution on the rates of change in insulin response in children. *Obesity Res.*, 10:978-984. PMID: 12376577
139. Cruz ML, Huang TT-K, Johnson MS, **Gower BA**, Goran MI. 2002. Insulin sensitivity and blood pressure in African American and Caucasian children. *Hypertension*, 40:18-22.
140. **Gower BA**, Granger WM, Franklin F, Shewchuk RM, Goran MI. 2002. Contribution of insulin secretion and clearance to glucose-induced insulin concentration in African-American and Caucasian children. *J. Clin. Endo. Metab.*, 87:2218-2224. PMID:11994367
141. Brix AE, Elgavish A, Nagy TR, **Gower BA**, Rhead WJ, Wood PA. 2002. Evaluation of liver fatty acid oxidation in the leptin deficient obese mouse. *Molecular Genetics & Metabolism*, 75:219-26. PMID:11914033
142. Munoz J, Derstine A, **Gower BA**. 2002. Fat distribution and insulin sensitivity in postmenopausal women: influence of hormone replacement. *Obesity Res*, 10:424-431.
143. **Gower BA**, Weinsier RL, Jordan JM, Hunter GR, Desmond R. 2002. Effects of weight loss on changes in insulin sensitivity and lipid concentrations in premenopausal African-American and Caucasian women. *Amer. J. Clin. Nutr.*, 76:923-927. PMID:12399261

144. **Gower BA**, Nagy TR, Blaylock ML, Wang C, Nyman L. 2002. Estradiol may limit lipid oxidation via Cpt 1 expression and hormonal mechanisms. *Obesity Res.*, 10:167-172. PMID: 11886939
145. Higgins PB, **Gower BA**, Hunter GR, Goran MI. 2001. Defining health-related obesity in prepubertal children. *Obesity Res*, 9: 233-240. PMID:11331426
146. Goran MI, **Gower BA**. 2001. Longitudinal study on pubertal insulin resistance. *Diabetes*, 50:2444-2450. PMID:11679420
147. Higgins PB, Fields D, Hunter GR, **Gower BA**. 2001. Effect of scalp and facial hair on air displacement plethysmography estimates of percentage body fat. *Obesity Res*, 9:326-330. PMID: 11346675
148. Weinsier RL, Hunter GR, **Gower BA**, Schutz Y, Darnell BE, Zuckerman PA. 2001. Body fat distribution in white and black women: different patterns of intra-abdominal and subcutaneous abdominal adipose tissue utilization with weight loss. *Amer. J. Clin. Nut*, 74: 631-636. PMID: 11684531
149. Hunter GR, RL Weinsier, **BA Gower**, C Wetzstein. 2001. Age-related decrease in resting energy expenditure in sedentary white women: effects of regional differences in lean and fat mass. *Am. J. Clin. Nutr.*, 73:333-337. PMID:11157332
150. Bamman MM, JR Shipp, J Jiang, **BA Gower**, GR Hunter, A Goodman, CL McLafferty, RJ Urban. 2001. Mechanical load increases muscle IGF-I and androgen receptor mRNA concentrations in humans. *Am J Physiol Endocrinol Metab*, 280:E383-E390. PMID:11171591
151. **Gower, BA**, SL Herd, MI Goran. 2001. Antilipolytic effects of insulin in African-American and Caucasian prepubertal boys. *Obesity Res*, 9:224-228.
152. Sun, M, **BA Gower**, AA Bartolucci, GR Hunter, R Figueroa-Colon, MI Goran. 2001. A longitudinal study of body composition and resting energy expenditure during puberty in African-American and White children and adolescents. *Am. J. Clin. Nutr*, 73:308-315. PMID:11157329
153. Herd, SL. **Gower, BA**, Dashti, N, Goran MI. 2001. Body fat, fat distribution and serum lipid, lipoprotein and apolipoprotein concentrations in African-American and Caucasian-American prepubertal children. *Int J Obesity*, 25:198-204. PMID:11410820
154. Goran MI, Bergman RN, **Gower BA**. 2001. Influence of total vs. visceral fat on insulin action and secretion in African American and white children. *Obesity Res*, 9:423-431. PMID: 11500522
155. **Gower, BA**, L Nyman. 2000. Associations between oral estrogen use, free testosterone concentration, and lean body mass among postmenopausal women *J. Clin. Endo. Metab*, 85:4476-4480. PMID:11134096
156. Kurtz, DM, L Tian, **BA Gower**, TR Nagy, CA Pinkart, and PA Wood. 2000. Transgenic studies of fatty acid oxidation gene expression in nonobese diabetic mice. *J. Lipid Res*, 41:2063-2070. PMID:11108740

157. **Gower, BA**, TR Nagy, MI Goran, A. Smith, E. Kent. 2000. Leptin in postmenopausal women: Influence of hormone therapy, insulin, and fat distribution. *J. Clin. Endo. Metab*, 85:1770-1775. PMID:10843150
158. Ku, C.-Y., **BA Gower**, GR Hunter, MI Goran. 2000. Ethnic Differences in insulin secretion and sensitivity in prepubertal children: role of physical fitness and physical activity. *Obesity Res*, 8:506-515.
159. Wasson, KM, **Gower, BA**, Watts, SA. 2000. Responses of the ovaries and testes of *Lytechinus variegatus Lamarch (Echinodermata:Echinoidea)* to dietary administration of progesterone, testosterone, and estradiol. *Marine Biology*, 137:245-255.
160. Wasson, KM, **Gower, BA**, Hines, GA, Watts, SA. 2000. Levels of progesterone, testosterone, and estradiol, and androstenedione metabolism in the gonads of *Lytechinus variegatus (Echinodermata:Echinoidea)*. *Comp. Biochem. Physiol. Part C*, 126:153-165. PMID: 11050687
161. Lindquist, CH, **Gower, BA**, Goran, MI. 2000. The role of dietary factors in ethnic differences in early risk of cardiovascular disease and type 2 diabetes. *Am. J. Clin. Nutr*, 71:725-732. PMID:10702165
162. Sun, M, **Gower, BA**, Nagy, TR, Bartolucci, AA, Goran, MI. 1999. Do hormonal indices of maturation explain energy expenditure differences in African-American and Caucasian prepubertal children? *Int J Obesity*, 23:1320-1326. PMID:10643691
163. **Gower, BA**, Nagy, TR, Goran, MI. 1999. Visceral fat, insulin sensitivity, and lipids in prepubertal children. *Diabetes*, 48:1515-1521. PMID:10426367
164. **Gower, BA**. 1999. Syndrome X in children: Influence of ethnicity and visceral fat. *Am. J. Hum. Biol.*, 11:249-257. PMID:11533948
165. Dezenberg, C, TR Nagy, **BA Gower**, R Johnson, and MI Goran. 1999. Predicting body composition from anthropometry in pre-adolescent children. *Int. J. Obesity*, 23:253-259. PMID: 10193870.
166. Goran MI, **Gower BA**. 1999. Relation between visceral fat and disease risk in children and adolescents. *Am. J. Clin. Nutr.*, 70: 149S-156S. PMID:10393163
167. Goran, MI, **BA Gower**. 1998. Abdominal obesity and cardiovascular risk in children. *Cor. Art. Dis.*, 8: 469-511. PMID:9847979
168. Ku C-Y, **BA Gower**, TR Nagy, MI Goran. 1998. Relationship between dietary fat, body fat, and serum lipid profile in prepubertal children. *Obesity Res.*, 6:400-407.
169. Goran, MI, Shewchuk, R, **Gower, BA**, Nagy, TR, Carpenter, WH, Johnson, RK. 1998. Longitudinal changes in fatness in white children: no effect of childhood energy expenditure. *Am. J. Clin. Nutr.*, 67:309-316.
170. Goran, MI, **Gower, BA**, Nagy, TR, Johnson, RK. 1998. Developmental changes in energy expenditure and physical activity in children: evidence for a decline in physical activity in girls before puberty. *Pediatrics*, 101:887-891. PMID:9565420

171. **Gower, BA**, TR Nagy, MH Stetson. 1998. Spontaneous testicular regression in collared lemmings (*Dicrostonyx groenlandicus*) exposed to prolonged long photoperiod. *J. Reprod. Fert.*, 113:307-313. PMID:9861171
172. **Gower, BA**, TR Nagy, MI Goran, MJ Toth, and ET Poehlman. 1998. Fat distribution and plasma lipid-lipoprotein concentrations in pre- and postmenopausal women. *Int. J. Obesity*, 22:605-611. PMID:9705017
173. **Gower, BA**, TR Nagy, CA Trowbridge, Carl Dezenberg, MI Goran. 1998. Fat distribution and insulin action in prepubertal African-American and Caucasian children. *Am. J. Clin. Nutr.*, 67:821-827. PMID:11068956
174. Goran, MI, TR Nagy, **BA Gower**, M Mazariegos, N Solomons, V Hood, R Johnson. 1998. Influence of sex, seasonality, ethnicity and geographic location on the components of total energy expenditure in young children: implications for energy requirements. *Am. J. Clin. Nutr.*, 68:675-682. PMID:9734747
175. Goran, MI, **BA Gower**, MS Treuth, and TR Nagy. 1998. Prediction of intra-abdominal and subcutaneous abdominal adipose tissue in healthy pre-pubertal Children. *Int. J. Obesity*, 22:549-558. PMID:9665676
176. Goran MI, **BA Gower**, TR Nagy, and RK Johnson. 1998. Developmental changes in energy expenditure and physical activity in children: Evidence for a decline in physical activity in girls prior to puberty. *Pediatrics*, 101:887-891.
177. Goran, MI, Shewchuk R, **BA Gower**, TR Nagy, WH Carpenter, RK Johnson. 1998. Longitudinal changes in fatness in white children: no effect of childhood energy expenditure. *Am. J. Clin. Nutr.*, 67:309-316. PMID:9459380
178. Sun, M., **BA Gower**, TR Nagy, CA Trowbridge, C Dezenberg, MI Goran. 1998. Total, resting, and activity-related energy expenditure are similar in Caucasian and African-American children. *Am. J. Physiol.*, 274:E232-E237. PMID:9486152
179. Epple, A, **B Gower**, MT Busch, T Gill, L Milakofsky, R Piechotta B Nibbio, T Hare, and MH Stetson. 1998. Stress responses in avian embryos. *Amer. Zool.*, 37:536-545.
180. Nagy TR, **BA Gower**, RM Shewchuk, and MI Goran. 1997. Serum leptin and energy expenditure in children. *J. Clin. Endocrinol. Metab.*, 82:4149-4153. PMID:9398730
181. Trowbridge CA, **BA Gower**, TR Nagy, GR Hunter, MS Trueth, and MI Goran. 1997. Maximal aerobic capacity in African-American and Caucasian children. *Am. J. Physiol.*, 273:E809-E814. PMID:9357812
182. Nagy TR, **BA Gower**, CA Trowbridge, C Dezenberg, RM Shewchuk, and MI Goran. 1997. Effects of gender, ethnicity, body composition, and fat distribution on serum leptin concentration in children. *J. Clin. Endocrinol. Metab.*, 82:2148-2152. PMID:9215286
183. Goran, MI, TR Nagy, MS Treuth, CA Trowbridge, C Dezenberg, A McGloin, and **BA Gower**. 1997. Visceral fat in Caucasian and African-American pre-pubertal children. *Am. J. Clin. Nutr.*, 65:1703-1708.

184. **Gower, BA**, TR Nagy, and MH Stetson. 1997. Alteration of testicular response to long photoperiod by transient short photoperiod exposure in collared lemmings (*Dicrostonyx groenlandicus*). *J. Reprod. Fert.*, 109:257-262.
185. **Gower, BA**, TR Nagy, and MH Stetson. 1996. Influence of photoperiod, time, and sex on hormone concentrations in collared lemmings (*Dicrostonyx groenlandicus*). *Gen. Comp. Endocrinol.*, 101:53-62. PMID:9155735
186. Nagy, TR, **BA Gower**, and MH Stetson. 1995. Endocrine correlates of seasonal body mass dynamics in the collared lemming, (*Dicrostonyx groenlandicus*). *Amer. Zool.*, 35:246-258.
187. Milakofsky, L, A Epple, B Nibbo, **B Gower**, and MH Stetson. 1995. Release of amino acids and related compounds from the adrenal equivalent and caudal vein of the eel in vitro. *Comp. Biochem. Physiol.*, 112C:275-283. PMID:8838679
188. **Gower, BA**, C Hadjipanayis, TR Nagy, and MH Stetson. 1994. Response of collared lemmings to melatonin: II. infusions and photoperiod. *J. Pineal Res*, 17:185-194. PMID:7722868
189. Nagy, TR, **BA Gower**, and MH Stetson. 1994. Response of collared lemmings to melatonin: I. implants and photoperiod. *J. Pineal Res*, 17:177-184. PMID:7722867
190. **Gower, BA**, TR Nagy, and MH Stetson. 1994. Pre- and postnatal effects of photoperiod on collared lemmings (*Dicrostonyx groenlandicus*). *Am. J. Physiol.*, 267:R879-R887. PMID:7943428
191. **Gower, BA**, TR Nagy, and MH Stetson. 1994. Effect of photoperiod, testosterone, and estradiol on body mass, bifid claw size, and pelage color in collared lemmings (*Dicrostonyx groenlandicus*). *Gen. Comp. Endocrinol.*, 93:459-470. PMID:8194745
192. Nagy, TR, **BA Gower**, and MH Stetson. 1994. Photoperiod effects on body mass, body composition, growth hormone, and thyroid hormones in male collared lemmings (*Dicrostonyx groenlandicus*). *Can. J. Zool.*, 72:1726-1734.
193. **Gower, BA**, TR Nagy, and MH Stetson. 1993. Role of prolactin and the gonads in seasonal physiological changes in the collared lemming (*Dicrostonyx groenlandicus*). *J. Exp. Zool.*, 266:92-101. PMID:8501441
194. Nagy, TR, **BA Gower**, and MH Stetson. 1993. Threshold photoperiods for the induction of short day traits in the collared lemming (*Dicrostonyx groenlandicus*). *J. Exp. Zool.*, 267:57-66. PMID:8376952
195. Nagy, TR, **BA Gower**, and MH Stetson. 1993. Development of collared lemmings, *Dicrostonyx groenlandicus*, is influenced by pre- and postweaning photoperiod. *J. Exp. Zool.*, 267:533-542. PMID:8263467
196. **Gower, BA**, TR Nagy, and MH Stetson. 1992. Role of photoperiod in reproductive maturation and peripubertal hormone concentrations in male collared lemmings (*Dicrostonyx groenlandicus*). *J. Reprod. Fert.*, 96:153-163. PMID:1432946
197. **Gower, BA** and PJ Berger. 1990. Reproductive responses of male *Microtus montanus* to photoperiod, melatonin, and 6-MBOA. *J. Pineal Res.*, 8:297-312. PMID:2203893

OTHER PUBLICATIONS

- Gower, BA**, and Caprio, S. Puberty, Insulin Resistance, and Type 2 Diabetes. 2006. In: *Handbook of Pediatric Obesity: Etiology, Pathophysiology, and Prevention*. Marcel Dekker, Inc., New York.
- Gower, BA**. Endocrine aspects of female obesity. 2005. In: *Textbook of Reproductive Medicine*, 3rd edition, BR Carr, RE Blackwell, R Azziz, eds. McGraw-Hill, New York, NY.
- Gower, BA**, R Azziz. Endocrine alterations in female obesity. 1998. In: *Textbook of Reproductive Medicine*, 2nd edition, BR Carr and RE Blackwell, eds. Appleton and Lange, Norwalk, CT.
- Nagy, TR, and **BA Gower**. 1999. A species account of the Greenland collared lemming, *Dicrostonyx groenlandicus*. In: *The Complete Book of North American Mammals*. E.E. Wilson, ed.

INVITED SEMINARS AND WORKSHOPS

- “You can’t run (or ride) from a bad diet. A scientific approach to weight loss and improved endurance.” June 30, 2014. Birmingham Bicycle Club.
- “Low carbohydrate diets for treatment of type 2 diabetes. Not just a fad.” March 14, 2014. Alabama Dietetic Association.
- “Your diet: Quality not quantity affects weight loss.” February 18, 2014. The Research Civitan Club Science Talks.
- “Low carbohydrate diets for treatment of type 2 diabetes. Not just a fad.” January 16, 2014. Birmingham Chapter, Alabama Dietetic Association.
- “Macronutrients and Metabolic Health”. December 5, 2013. Invited symposium. American Society for Nutrition special conference on Controversies in Nutrition.
- “Macronutrients and Metabolic Health”. September 19, 2013. Diabetes Research Center plenary lecture. UAB.
- “The bone-fat-pancreas axis: establishing a role for undercarboxylated osteocalcin in energy homeostasis,” June 29, 2011, UAB Center for Metabolic Bone Disease annual symposia.
- “Role of insulin resistance in chronic metabolic disease: does race matter?” April 26, 2011, UAB Vascular Biology & Hypertension Program seminar series.
- “Independent effects of diet quality and energy balance on risk for type 2 diabetes,” February 23, 2011, Dept. Physiology and Biophysics seminar series.
- “Fundamental differences in insulin-glucose homeostasis in African-Americans and Caucasians; implications for T2D risk.” January 14, 2011, Vanderbilt Institute for Obesity and Metabolism seminar series. Vanderbilt University, Nashville, TN.
- “Ethnic differences in diabetes risk: is there a physiologic basis?” August 25, 2010, Grand Rounds, Department of Medicine, University of Alabama at Birmingham, Birmingham, AL.
- “Ethnic differences in diabetes risk: is there a physiological basis?” December 21, 2009, Division of Nephrology, University of Alabama at Birmingham, Birmingham, AL.
- “Healthy aging in women: the role of fat distribution.” December 5, 2008, Center for Aging Lecture series, University of Alabama at Birmingham, Birmingham, AL.
- “Healthy aging in women: the role of fat distribution.” February 5, 2008, University of Texas Medical Branch, Galveston, TX.
- “Ethnic differences in insulin secretion and action.” May 19, 2006, Obesity Research Center, St. Luke's Roosevelt Hospital Center, New York.
- “Ethnic differences in insulin secretion and action.” Sept. 7, 2005, CARD Lecture Series, Cedars-Sinai Medical Center, Los Angeles.

- “Use of Admixture in Evaluating Insulin Secretion and Action.” May 12, 2005, Genetic Admixture Workshop, Univ. Alabama at Birmingham.
- “Physiology of Obesity.” April 15, 2005, New Jersey Conference on Childhood Obesity: Challenges and Solutions. Rutgers University.
- “Ethnic difference in insulin-glucose homeostasis.” March 31, 2004, La Coordinacion de Investigacion en Salud, Instituto Mexicano del Seguro Social, Mexico City.
- “Ethnic difference in insulin secretion, clearance, and action.” February 24, 2004, Univ. Oklahoma, Dept. Pediatrics.
- “Ethnic difference in insulin secretion and action.” January 14, 2004, Georgia Prevention Institute; Medical College of Georgia.
- “Ethnic difference in insulin secretion and action.” November 13, 2002, Dept. Physiology and Biophysics seminar series.
- “Metabolic effects of estrogen.” October 29, 2002, Dept. Nutrition Sciences seminar series.
- “Causative Factors: Obesity.” Sept. 27, 2002, Prevention of type 2 diabetes in children: pathogenesis to public policy. Center for Weight and Health Control, UC Berkeley.
- “Metabolic effects of estrogen.” May 10, 2002, Dept. Pathobiology and Genomics seminar series.
- “Ethnic differences in insulin secretion and action.” May 17, 2002, UAB Hypertension Group seminar series.
- “Ethnic differences in insulin secretion and action.” Nov. 29, 2001, Pennington Biomedical Research Center.
- “Obesity and type 2 diabetes in adolescents; influence of ethnicity and gender.” October 9, 2001, invited symposium presentation, NAASO annual meeting.
- “Epidemiological/environmental determinants of obesity-related insulin resistance.” August 22, 2001, invited presentation, FASEB Summer conference on obesity.
- “Ethnic difference in insulin secretion and action.” November 16, 2000, UAB Dept. Medicine, Division of Endocrinology and Metabolism seminar series.
- “Insulin resistance in prepubertal Caucasian and African-American children: Causes and consequences.” February 22, 1999, NRTC Noon Research Conference, Dept. Medicine, Div. Nephrology, UAB.
- “Syndrome X in children: influence of ethnicity and visceral fat.” Invited symposium presentation. Experimental Biology 1998, San Francisco.
- “Syndrome X in children: influence of ethnicity and visceral fat.” May 29, 1998, Pediatric Research Forum, Dept. Pediatrics, UAB.
- “Postmenopausal hormone therapy and body composition.” October 31, 1997, UAB Center For Aging.
- “Postmenopausal hormone therapy and body composition.” October 24, 1997, Continuing Medical Education conference, “Obesity Update”, sponsored by the UAB Department of Nutrition Sciences, the UAB Obesity Research Center, and the UAB School of Medicine.
- “Regional adiposity and insulin action in African-American and Caucasian children.” April 17, 1997, Univ. Alabama at Birmingham, Department of Physiology and Biophysics.
- “Seasonal changes in reproduction and morphology are independently regulated in an Arctic mammal.” March 31, 1995, Univ. Alabama, Birmingham, Department of Biology.
- “Seasonal changes in body composition and hormone concentrations in Arctic lemmings.” February 27, 1995, Univ. Alabama, Birmingham, Dept. Nutrition Sciences, Energy Metabolism Research Unit.
- “Seasonal physiological changes in Arctic lemmings.” February 10, 1995, Birmingham-Southern College, Department of Biology.
- “Physiological and endocrine responses to photoperiod in the collared lemming, *Dicrostonyx groenlandicus*.” February 27, 1992, Old Dominion University, Department of Biology.

HONORS

Dannon Institute Mentorship Award, American Society for Nutrition, 2015
Becky Trigg Outstanding Faculty Member Award; UAB Women's Center, UAB Women's and
Gender Studies, and the UAB Commission on the Status of Women, 2013
Creativity is a Decision Award, UAB Nutrition Obesity Research Center, 2012
Dean's Excellence in Mentorship Award, University of Alabama at Birmingham, 2011
Excellence in Scholarship Award, School of Health Professions, UAB, 2007
Graduate Research Fellowship, University of Utah, 1987 - 1988.
Graduate Research Fellowship, University of Utah, 1988 - 1989.

PHD THESIS

The Endocrine Effects of 6-Methoxybenzoxazolinone, a Naturally-Occurring
Reproductive Stimulant.