

VITA

Gary Richard Hunter
Work (205) 934-8338

Personal Information

Date of Birth: August 16, 1943
Place of Birth: Pontiac, MI
Sex: Male Nationality: American
Marital Status: Married with two children
Military Status: U.S. Air Force, 1967-1971

Education

- B. S. Eastern Michigan University (Psychology, History) 1966
- M.A. Michigan State University (Physical Education) 1974
Thesis: "Velocity, Acceleration, and Movement Patterns
in the Pulling Phase of an Olympic Lift"
- Ph.D. Michigan State University 1978
Major: Physical Education
Minor Areas: Physiology, Anatomy, Statistics
Dissertation: "The Effects of Sodium Bicarbonate
Ingestion on Acid-Base Parameters Associated with
Exhaustive Work"

Professional Experiences

Teaching Experiences

- A. Professor, University of Alabama at Birmingham, Human Studies Department, UAB, 1994-present.

Secondary appointment, Department of Nutritional Sciences, UAB, 1990-present.

Associate Director Energy Metabolism Research Unit, Department of Nutritional Sciences, UAB, 1995- present.

Secondary Appointment, Center for Aging, UAB, 1995-present.

Secondary Appointment, Center for Health Risk Assessment and Disease Prevention, UAB - 1984 - present.

Associate Professor, University of Alabama at Birmingham, HEPE Department, 1989-present.

Assistant Professor, University of Alabama at Birmingham, HEPE Department, 1984-1989.

Lecturer, University of Wisconsin-Madison, 1980-1984.

Assistant Professor, Joint Appointment, University of South Alabama 1978-1980 and United States Sports Academy, Bahrain.

Senior Graduate Assistant - four years, Michigan State University

Graduate Assistant - one year, Michigan State University

B. Courses Taught

1. Undergraduate

a. Service Courses

- 1) Basketball
- 2) Weight Lifting Beginning
- 3) Weight Lifting Intermediate
- 4) Tennis
- 5) Bowling
- 6) Racquetball
- 7) Baseball
- 8) Softball
- 9) Conditioning
- 10) Conditioning II
- 11) Cycling

b. Professional Courses

- 1) Measurement in Physical Education
- 2) Mechanical Analysis of Physical Activity
- 3) Structural Analysis of Physical Activity
- 4) Developmental Basis of Physical Activity
- 5) Theory of Athletic Conditioning
- 6) Exercise Physiology
- 7) Internship
- 8) Principles of Fitness Leadership

2. Graduate

- a. Laboratory Orientation
- b. Physical Conditioning
- c. Exercise Physiology
- d. Practicum in Physiology

- e. Advanced Techniques in Exercise Testing
- f. Advanced Principles of Conditioning the Athlete
- g. Exercise and the aging Process
- h. Introductory Statistics

Administration Experience

- A. Developed and Administered Health Fitness Program, Bahrain
- B. Director of Sports Medicine, Country of Bahrain
- C. Director Health Fitness Program, University of Wisconsin-Madison
- D. Coordinator Service Fitness Program, University of Wisconsin-Madison
- E. Director Exercise Physiology Laboratories, University Alabama at Birmingham
- F. Associate Director Energy Metabolism Research Unit, UAB.

Coaching Experience

- A. Michigan State University Weight Lifting Coach 1973-1976
- B. Director of Strength Training for the Nation of Bahrain 1978
- C. Coach, Olympic Weight Lifting for the Nation of Bahrain
- D. Coach, Olympic Weight Lifting for RPM

Professional Organizations and Honors

- A. American College of Sports Medicine, Fellow
- B. Phi Kappa Phi
- C. Asian Congress of Sports Science
- D. Allied Alliance for Health, Physical Education and Dance
- E. National Strength and Conditioning Association, C.S.C.S.
- F. Association for Fitness in Business
- G. President Research Council State AAHPERD
- H. Who's Who in American Education
- I. Executive Council, CSCS Certification Agency - vice-chair
- P. Consultant USWF Sports Medicine Committee
- Q. Research Committee USWF
- R. Research Committee NSCA
- S. Dictionary of International Biography 1994
- T. Who's Who in Science and Engineering
- U. Who's Who in Education
- V. Who's Who in Medicine and Health
- W. Who's Who in the World
- X. Sport Scientist of the Year, 1994, NSCA
- Y. Visiting Research Professor University of Lausanne, Switzerland, 2000
- Y. Visiting Research Fellowship- Queensland University of Technology, Brisbane Australia, 2005
- Z. Dean's Award for Excellence in Mentorship, UAB 2008
- A" President's Award for Excellence in Teaching, UAB 2008
- B" UAB Research Creativity is a Decision Award 2011
- C" Presented 1st Annual Gary R. Hunter, Distinguished Lecture, Center Exercise is Medicine, 2013

Professional and Community Involvement

- A. Consultant National YMCA
- B. UAB Advisory Council on Fitness
- C. Consultant City of Birmingham Fitness/Wellness Program
- D. Consultant Wellness Systems of America, Inc.
- E. Consultant UAB Athletic Department - Directs athlete testing and advises on training
- F. Associate Editor National Strength and Conditioning Journal
- G. Senior Editorial Board the Journal Strength and Conditioning Research.
- H. Consultant Sport Life
- I. Member US Weightlifting Federation's Scientific Services Committee
- J. Editorial Board Sports Medicine Update
- K. Scholarship Committee NSCA
- L. Chairman Indexing Committee NSCA
- M. Research Committee NSCA
- N. Senior Editorial Board JSCR
- O. Post Graduate Faculty, Los Angeles Chiropractic College
- P. Consultant Sports Medicine Committee, USWF
- Q. CSCS Test Committee
- R. Board of Directors Health South Executive Fitness and Wellness Program
- S. Vice Chair Executive Council CSCS Agency
- T. NSCA Program Committee
- U. Associate Editor Journal of Physical Education
- U. Reviewer:
 - Medicine and Science in Sport and Exercise
 - National Strength and Conditioning Association Journal
 - Journal of Applied Sport Science
 - Sports Medicine Update
 - ASAHPERD Journal
 - Journal of the Alabama Academy of Science
 - Journal of the Southern Medical Association
 - International Journal of Obesity
 - Journal of Strength and Conditioning Research
 - Journal of Sports Medicine and Physical Fitness
 - Journal of Parenteral and Enteral Nutrition
 - Journal of Medicine, Exercise, Nutrition and Health
 - American Journal of Clinical Nutrition
 - Journal of Applied Physiology
 - Obesity Research
 - Diabetes Care
 - Journal of Annals of Epidemiology
 - Journal of Internal Medicine
 - International Journal of Sports Medicine
 - American Journal of Physiology
 - American Journal of Clinical Nutrition
 - British Journal of Clinical Nutrition
 - American Journal of Medical Science
 - European Journal of Applied Physiology

European Journal of Clinical Nutrition
 Muscle & Nerve
 Journal of Clinical Investigation
 Journal of Gerontology
 British Journal of Bone
 Metabolism
 Journal of American Gerontology Society
 Journal of Clinical Endocrinology Metabolism
 Dynamic Medicine
 International Journal of Body Composition Research
 Diabetes
 American Journal of Physical Medicine
 Obesity Reviews
 Applied Physiology, Nutrition, and Metabolism
 Gerontology
 Biology of Sport

V. Liaison Committee ACSM

W. Senior Scientist in the Center for Nutrition Obesity Research,

X. Senior Scientist Center for Aging

Y. Senior Scientist Center for Diabetes Research and Training

Z. Senior Scientist Center for Exercise Medicine

A'. Executive Action Committee Nutrition Obesity Research Center.

B'. Center for Aging Executive Council.

Funded Grant Participation

NIH Grant

Title: Long-Term Follow-up of Post-Obese Black and White Women

Dr. Barbara Gower, PI

Co-PI, \$2,468,102 over 5 years - (1997-2002).

NIH Grant

Title: Intra-abdominal fat and risk of disease in adolescents

Dr. Michael Goran, PI

Co-Investigator, \$2,214,910 over 4 Years - (1997-2001).

NIH Grant

Title: Energy Expenditure in Post-Obese Black and White Women

Dr. Roland Weinsier, PI

Co-PI, \$2,053,536 over 5 years - (1995-2000).

NIH Grant

Title: The Effects of Exercise Training on Weight Maintenance in Black and White Women

Hunter PI, 2,120,000 over 5 years – (2001-2006)

NIH Grant

Title: Frequency of aerobic/resistance training in older women

Hunter PI, 1,350,000 over 5 years – (2005-2011)

NIH Grant

Title: Supplement to Frequency of aerobic/resistance training in older women
Hunter PI \$230,000 over 3 years (2008-2011)

NIH Grant

Title: Improving in visual processing in older adults
Dr. Karlene Ball, PI
Co-Inv \$2,500,000 over 5 years (2006-2011)

NIH Grant

Title: Continued Long-term follow-up of post-obese Black and White women
Dr. Barbara Gower, PI
Co-Inv \$1,000,000 over 5 years (2005-2010)

NIH Grant

Title: Calorie restriction and changes in body composition, disease risk, function, & quality of life in older adults
Dr. Jami Ard and Julie Locher, PI
Co-Inv \$2,350,999 over 5 years (2009-2014)

NIH Grant

Title: Use of Anthropometry in Assessing Fat
Hunter Principle Investigator and Sponsor, two year full time visiting research position,
1992-1994,
PI \$72,000.00 over two years.

NIH Grant

Title: Identification of Specific Biomarkers of fatty acid oxidation
USDA/NIH Dr. Sean Adams
Co-inv \$2,000,000 over 4 yrs (2008 – 2012)

NIH Grant

Title: Exercise Intensity, metabolic rate & insulin sensitivity
Hunter PI: \$1,900.000 over 4 yrs (2010-2014)

NIH Grant

Title: Calorie restriction and changes in body composition, disease risk, function, & quality of life in older adults
PI Jami Ard and Julie Locher
Co-Investigator: \$2,400,000 over 5 years. 09/15/09-09/15/14

NIH Grant

Title: Training interventions and Genetics of exercise response (TIGER)
Dr. Molly Bray PI
Co-investigator \$3,669,129 6/14/2010-5/31/2015

NIH Grant

Title: Promoting weight loss in African-American Cancer Survivors in the Deep South
PI: Monica Baskin
Co-Investigator \$2,392,217 over 5 yrs (2012-2017) Just funded 1 May

NIH Grant

Title: Exploring the Impact of Negative Energy Balance in Men with Prostate Cancer.

PI Wendy Demark-Wahnefried

Co-Investigator \$130,000 over 2 years Sept 2012-Aug 2014.

Foundations

Ralph L Smith, Foundation

Title: Weight Training in Older Adults.

Hunter Principle Investigator, 1997-1998, \$26,700.00

Ralph L Smith, Foundation

Title: Long-Term Follow-up of Resistance Trained Older Adults

Hunter Principle Investigator, 1999-2002, \$34,500.00

Center for Aging

Title: Weight Training in Older Women.

Hunter Principle Investigator, 1993-94, \$24,961.00

Publications

YG Hwang, H-C Hsu, FC Lim, AA Yang, G Fisher, GR Hunter, JD Mountz. Advances in Aging Research. 2(2):In Print.

C Yarar, AB Jackson, GR Hunter, Y-Y Chen. Body mass index underestimates adiposity in women with spinal cord injury. Obesity. In Print.

RA Wood, AP Hills, GR Hunter, NA King, NM Byrne. VO₂max in overweight and obese adults: do they meet the threshold criteria? Med Sci Sports Exerc. In Print.

Roy JLP, Richardson MT, Smith JF, Neggers, Y, Lomax RT, Pironi R, Hunter GR. Relationship of plasma homocysteine levels to physical activity and aerobic fitness in young males. Biol Sport. In Print.

BA Gower, CA Trowbridge, GR Hunter, TR Nagy, MI Goran. Ethnic differences among prepubertal children influence of physical fitness and activity. Int J Obes. In Print.

Ching-Yi Ku, BA Gower, GR Hunter, MI Goran. Ethnic differences in insulin secretion and sensitivity in prepubertal children: Role of physical fitness and physical activity. Obes Res. In Print.

R Figuerola-Colon, MS Mayo, MS Treuth, GR Hunter, L Berland, RL Weinsier. Reproducibility of fat distribution, computed tomography and dual energy X-ray absorptiometry. Am J Clin Nutr. In Print.

Gary R. Hunter¹, C. Scott Bickel², Gordon Fisher¹, William Neumeier³, John McCarthy Combined aerobic/strength training & energy expenditure in older women. Med Sci Sports Exerc Ahead of Print 2013.

Layec G, Trinity JD, Hart CR, Hopker J, Passfield L, Coen PM, Conley KE, **Hunter GR**, Fisher G, Ferguson RA, Sasaki K, Malatesta D, Maffiuletti NA, Borrani F, Minetti AE, Rice CL, Dalton BH, McNeil CJ, Power GA, Manini TM. Comments on Point:Counterpoint: Skeletal muscle mechanical efficiency does/does not increase with age JAP 114:1114-1118, 2013.

K R. Wolfe, GR. Hunter, A Madan-Swain, AT Reddy, J Banos, RK Kana. An fMRI Investigation of working memory and its relationship with cardiorespiratory fitness in pediatric posterior fossa tumor survivors. *Pediatric Blood & Cancer*. 60:669-675, 2013.

Corrick KL, Hunter GR, Fisher, G, Glasser, SP. Changes in vascular hemodynamics in older women following 16 weeks of combined aerobic and resistance training. *J Clin Hyperten*. 4:241-246, 2013.

Hamilton KC, Fisher, G, Roy JL, Gower BA, Hunter, GR. The effects of weight loss on relative bone mineral density in premenopausal women. *Obesity*. 3:441-448, 2013.

Barbara Gower, Jessica A. Alvarez, Nikki C. Bush, Gary R. Hunter. Insulin sensitivity affects propensity to obesity in an ethnic-specific manner: results from two controlled weight loss intervention studies. *Nutrition & Metabolism*. E Pub Ahead of Print 2013.

Wolfe KR, Hunter GR, Madan-Swain A, Reddy AT, Banos J, Kana, RK. (2012). Cardiorespiratory fitness in survivors of pediatric posterior fossa tumor. *Journal of Pediatric Hematology/Oncology*, 34(6), 222-7, 2012.

G Fisher, JP McCarthy, PA Zuckerman, DR Bryan, DS Bickl, GR Hunter. Frequency of combined resistance and aerobic training in older women. *J ST Cond Res*. Ahead of Print. 2012.

John P. McCarthy, DS Wood, MS Bolding, JL Roy, GR Hunter. Potentiation of concentric force and acceleration only occurs early during the stretch-shortening cycle. *J Str Cond Res* Ahead of Print 2012.

Gordon Fisher, Gary R. Hunter, and Stephen P. Glasser. Associations between Arterial Elasticity and Markers of Inflammation in Healthy Older Women. *Journal of Gerontology, Biological Sciences*. Ahead of Print, 2012.

G Fisher, GR Hunter, BA Gower. Response to “effect of diet with and without exercise training on markers of inflammation and fat distribution in overweight women. Letter to the Editor. *Obesity*. Ahead of Print. 2012.

David W. Brock, Connie L. Tompkins, Jeremy, Barbara A. Gower, and Gary R. Hunter. Influence of Resting Energy Expenditure on Blood Pressure is Independent of Body Mass and a Marker of Sympathetic Tone. *Metabolism*. Ahead of Print. 2012.

Gary R. Hunter, Gordon Fisher, David R. Bryan, Paul A. Zuckerman. Weight loss and exercise training effect on oxygen uptake and heart rate response to locomotion. *J Str Cond Res*. Ahead of Print. 2012.

Fisher, G, Hunter, GR, Gower, BA Aerobic Exercise Training Conserves Insulin Sensitivity for 1 Year Following Weight Loss in Overweight Women JAP, Highlighted Topic. 112:688-693, 2012.

M Azrad, BA Gower, GR Hunter, TR Nagy. Intra-abdominal adipose tissue is independently associated with sex-hormone binding globulin in premenopausal women. *Obesity* ahead of print, 2012.

Brock, DW, Tompkins, CL, Fisher, G, Hunter, GR Influence of resting energy expenditure on blood pressure is independent of body mass and a marker of sympathetic tone. *Metabolism*. Epub ahead of print 2012.

GR Hunter, JP McCarthy, MM Bamman, DE Larson-Meyer, G Fisher, BR Newcomer. Exercise Economy in African American and European American Women. *Eur J Appl Phys*. 111(8):1863-1869, 2012. PMID: PMC3137679

S Perry, M Joyner, K Nosaka, YP Ptsiladis, JM Smoliga, GR Hunter, CK Chang, HJ Rruiz, A Lucia, J Louis, GS Zavorsky, G Fisher, HJ Kim Commentaries on Viewpoint: Sacrificing economy to improve running performance- a reality in the ultramarathon? *J Appl Phys* 113:510-512, 2012. No Federal funds used.

G Fisher, GR Hunter, B Gower. Markers of inflammation and fat distribution following weight loss in African American and Caucasian women. *Obesity*. Advanced Pub on Line 2011.

GR Hunter, K Katsoulis, JP McCarthy, WK Ogard, MM Bamman, DS Wood, JA Den Hollander, TE Blaudeau, BR Newcomer. Tendon length and joint flexibility are related to running economy. *Med Sci Sports Exerc*. 43:1492-1499, 2011.

AL Willig, GR Hunter, K Casazza, DC Heimberger, TM Beasley, JR Fernandez. Body fat and racial genetic admixture are associated with aerobic fitness levels in a multiethnic pediatric population. *Obesity*. Ahead of Print. 2011.

JE Lawrence, BR Newcomer, SD Buchthal, B Sirikul, RA Oyster, GR Hunter, BA Gower. Relationship of intramyocellular lipid to insulin sensitivity may differ with ethnicity in healthy girls and women. *Obesity*. 19 (1) : 43-8, 2011.

Azrad M, P-L Chang, BA Gower, GR Hunter, and TR Nagy. 2011. Reduced mitogenicity of sera following weight loss in premenopausal women. *Nutr Cancer*, 63:916-23. 2011 NIHMS#332779

GR Hunter, CS Bickel, P Del Corral, NM Byrne, AP Hills, DE Larson-Meyer, MM Bamman, BR Bradley. Age, muscle fatigue, and walking endurance in pre-menopausal women. *Eur J Appl Phys*, 111(4):715-723,2011.

Hunter, GR. Comparison of Nutrition vs. Exercise Training for Obese Adults in International Congress for Overweight and Obesity Treatment: Nutrition and Physical Activity Programs Editors PJ Benito Peinado, M Gonzalez-Gross, A Garcia Zapico, A Rivero Herraiz Universidad Politecnica de Madrid, pg 60-61, 2011, No federal funds used.

G Fisher, TC Hyatt, GR Hunter, RA Oyster, RA Desmond, BA Gower. Effect of diet with and without exercise training on markers of inflammation and fat distribution in overweight women. *Obesity*. 19(6):1131-1136, 2011. PMID: PMC3102145.

P Del Corral, DR Bryan, WT Garvey, BA Gower, GR Hunter. Dietary Adherence During Weight Loss Predicts Weight Regain. *Obesity*. 19:1177-1181, 2011.

NC Bush, JA Alvarez, GR Hunter, DW Brock, PC Chandler Laney, BA Gower. Ethnicity-specific anthropometric predictors of metabolic risk in women. *Int J Body Comp Res.* 8:69-76,2010. PMID:PMC3172136.

JA Alvarez, AP Ashraf, GR Hunter, BA Gower. 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 (6) :1344-9, 2010.

GR Hunter, BA Gower, BL Kane. Age related shift in visceral fat. *Int J Body Comp Res* 8:103-108, 2010.

DW Brock, BA Irving, BA Gower, GR Hunter. Differences emerge in visceral adipose tissue accumulation after selection for innate cardiovascular endurance. *Int. J. Obesity.* 35(2):309-312. 2010
PMCID: PMC2982865.

PC Chandler-Laney, DW Brock, BA Gower, JA Alvarez, NC Bush, GR Hunter Self-reported low vitality, poor mental health, and low dietary restraint are associated with over-perception of physical exertion. *Obesity Research.* Published on line 2010. PMID: PMC2948900.

K Casazza, AL Willig, BA Gower, GR Hunter, S Wallace, AM Franklin, , M Beasley, JR Fernandez. The role of European admixture in the etiology of the insulin resistance syndrome in children: are the effects mediated by fat accumulation? *J Pediatr.* 157(1):50-56, 2010. PMID:PMC3119818.

AC Ellis, TC Hyatt, GR Hunter, BA Gower. Respiratory quotient predicts fat mass gain in premenopausal women. *Obesity.* May, advanced on line print. 2010.

JA Alvarez, NC Bush, SS Choquette, GR Hunter, BE Darnell, RA Oster, BA Gower. Vitamin D intake is associated with insulin sensitivity in African American, but not European American women. *Nutrition & Metabolism.* 7:28, 2010. PMID: PMC2868016.

I Grunte, GR Hunter, BG MCurry, MS Bolding, JP Roy, JP McCarthy. Age and gender differences in hip extension and flexion torque steadiness. *Gerontology.* Ahead of Print 2010. No federal funds used.

Bush NC, Alvarez JA, Choquette SS, Hunter GR, Oster RA, Darnell BE, Gower BA. Dietary calcium is associated with less gain in intra-abdominal adipose tissue over 1-year. *Obesity.* 18(11):2101-2104, 2010. PMID:PMC 2902577.

Hills, AP, Shultz SP, Soares, MJ, Byrne, NM, Hunter, GR, King, NA, Misra, A. Resistance training for obese, type 2 diabetic adults: a review of the evidence. *Obes Rev.* Ahead of Print 2010. No federal funds used.

GR Hunter, DW Brock, NM Byrne, PC Chandler-Laney, P Del Corral, BA Gower. Exercise training prevents regain of visceral fat for 1 year following weight loss. *Obesity* 18:690-695, 2010. PMID: PMC2913900.

DW Brock, PC Chandler-Laney, JA Alvarez, BA Gower, GA Gaesser, GR Hunter Perception of exercise difficulty predicts weight regain in formerly overweight women. *Obesity.* 18:982-986, 2010. PMID: PMC2924634.

GR Hunter, PC Chandler-Laney, DW Brock, C Lara-Castro, JR Fernandez, BA Gower. Fat distribution, aerobic fitness, blood lipids, and insulin sensitivity in African American and European American women. *Obesity*. 18(2):274-281, 2010. PMID: 145380.

BA Gower, GR Hunter, P Chandler-Laney, J Alvarez, N Bush. Glucose metabolism and diet predict changes in adiposity and fat distribution in weight-reduced women. *Obesity*. 18(8):1532-1537, 2010. PMID: PMC3070365.

P Chandler-Laney, GR Hunter, N Bush, J Alvarez, J Roy, N Byrne, B Gower. Associations among body size dissatisfaction, perceived dietary control, and diet history in African American and European American women. *Eating Behaviors*. 10:202-208, 2009. PMID 2752653.

K Casazza, BA Gower, AL Willig, GR Hunter, JR Fernandez. Physical fitness, activity, and insulin dynamics in early pubertal children. *Ped Ex Sci* 21:63-76, 2009. PMID: PMC2918229

P. Chandler-Laney, GR Hunter, DW Brock, J Roy, JD Ard, BA Gower. Perception of others' body size influences weight loss and regain for European American but not African American women. *Health Psychology*. 28:414-418, 2009. PMID 2711516.

AL Willig, K Casazza, J Divers, AW Bigham, BA Gower, GR Hunter, JR Fernandez. Uncoupling protein 2 Ala55Val polymorphism is associated with a higher acute insulin response to glucose. *Metabolism*. 58:877-881, 2009. PMID: PMC2704067

K Katsoulis, TE Blaudeau, JP Roy, GR Hunter. Diet-induced changes in intraabdominal adipose tissue and CVD risk in American Women. *Obesity*. 17:2169-2175, 2009. PMID: PMC2783986

P Del Corral, PC Chandler, K Casazza, BA Gower, GR Hunter. Effect of dietary adherence with or without exercise on weight loss: a mechanistic approach in a global problem. *Journal of Clinical Endocrinology and Metabolism*. 94:1602-1607, 2009. PMID 2684471.

K Casazza, N Natour, J Divers, LK Vaughan, AW Bigham, BA Gower, GR Hunter, JR Fernandez. Triglyceride concentration is independently associated with variation in the LPL gene in African American and European Women. *The Open Obesity Journal*. 1:23-31, 2009.

DW Brock O Thomas, CD Cowan, GA Gaesser, DB Allison, GR Hunter. Association between Insufficiently physical active and prevalence of obesity in the United States. *Journal of Physical Activity and Health*. 6:1-5, 2009. PMID 2659323.

T Hyatt, R Phadke, GR Hunter, N Bush, J Munoz, BA Gower. Insulin sensitivity in African-American and Caucasian women: association with inflammation. 17:276-282. 2008. PMID: PMC2748773

M De Luca, MM Chambers, K Casazza, KH Lok, GR Hunter, BA Gower, JR Fernandez. Genetic variation in a member of the laminin gene family affects variation in body composition in Drosophila and humans. *BMC Genetics*. 9:52:1471-2156, 2008. PMID: PMC2533007

C Lara-Castro, E Doud, P Tapia, JA Munoz, J Fernandez, GR Hunter, BA Gower, GW Garvey. Adiponectin multimers distribution and metabolic syndrome traits: Relative Adiponectin Resistance in African Americans. *Obesity EPUB ahead of Print*. 2008. PMID: PMC2721223

JA Alvarez, NC Bush, GR Hunter, DW Brock, BA Gower. Ethnicity and weight status impact the accuracy of proxy indices of insulin sensitivity. *Obesity EPUB ahead of print* oct 16 2008. PMID: PMC2779542

GR Hunter, JP McCarthy, DR Bryan, PA Zuckerman, MM Bamman. Increased strength and decreased flexibility are related to reduced oxygen cost of walking. *Eur J Appl Physiol.* 104:895-901, 2008. PMID:PMC2748768.

GR Hunter, NM Byrne, B Sirikul, JR Fernandez, PA Zuckerman, BE Darnell, BA Gower. Resistance training conserves fat free mass and resting energy expenditure following weight loss. *Obesity.* 16:1045-1051, 2008.

GR Hunter, RT Harris. Structure and function of the muscular, neuromuscular, cardiovascular, and respiratory systems. In *Essentials of Strength Training and Conditioning*. Editors; TR Baechle & RW Earle. 3rd Edition. Human Kinetics. Champaign, 2008.

MP St-Onge, R Desmond, GR Hunter, B Gower. Baseline inflammation markers do not modulate lipid response to weight loss. *Metabolism* 57:598-604, 2008.

TE Blaudeau, GR Hunter, M-P St Onge, BA Gower, J Roy, D Bryan, PA Zuckerman, BE Darnell. IAAT, catecholemines, and parity in African-American and European-American women. *Obesity.* 16(4):797-803, 2008.

BA Gower, JD Ard, GR Hunter, J Fernandez, F Ovalle. Elements of the metabolic syndrome: association with insulin sensitivity, and effects of ethnicity. *Metabolic Syndrome and Related Disorders.* 5(1):77-86, 2007.

Hartman MJ, Fields DA, Byrne NM, Hunter GR Resistance training improves metabolic economy during functional tasks in older adults. *J St Cond Res.* 21(1):91-95, 2007.

M Lopez-Alarcon, GR Hunter, BA Gower, JR Fernandez. IGF-I polymorphism is associated with lean mass, exercise economy and performance among premenopausal women. *Arch Med Res.* 38:56-63, 2007. PMID: PMC1831461

B Sirikul, GR Hunter, DE Larson-Meyer, R Desmond, BR Newcomer, Relationship between metabolic function and skeletal muscle fatigue during 90 s maximal isometric contraction. *Appl Physiol Nutri Metabol.* 32(3): 394-399, 2007.

Hunter, GR. Sarcopenia and the relevance of muscular strength in the treatment and management of obesity. In *Physical Activity and Obesity*. Andrew Hills editor. Smith-Gordon and Company, London. 2006.

GR Hunter, DE Larson-Meyer, B Sirikul, BR Newcomer. Muscle metabolic function and free living physical activity. *J Appl Physiol.* 101:1356-1361, 2006.

JLP Roy, GR Hunter, TE Blaudeau. Percent fat is related to body-shape perception and dissatisfaction in students attending an all women's college. *Perceptual and Motor Skills* 103:677-684, 2006.

GR Hunter, NM Byrne, BA Gower, B Sirikul, AP Hills. Increased resting energy expenditure following

40 minutes aerobic but not resistance exercise. *Obesity*. 14:2018-2025,2006.

Blaudeau TE, Hunter, GR. Intra-abdominal adipose tissue deposition and parity. *Int J Obes*. 30:119-1124, 2006.

J Munoz, KH Lok, BA Gower, JR Fernandez, GR Hunter, C Lara-Castro, M De Luca, WT Garvey. Polymorphism in the transcription factor 7-like 2 (TCF7L2) gene is associated with reduced insulin secretion in nondiabetic women. *Diabetes* 55(12):3630-3634, 2006.

JLP Roy, KS Menear, M Schmid, GR Hunter. Physiological responses of skilled players during a competitive wheelchair tennis match. *Journal of Strength and Conditioning Research* 20(3):665-671, 2006.

Sirikul B, Gower BA, Hunter GH, Larson-Meyer DE, Newcomer B. Relationship between insulin sensitivity and in vivo mitochondrial function in skeletal muscle. *Am J Physiol Endocrinol Metab*, 291(4):E724-E728, 2006.

Roy JP, Hunter GR, Fernandez JR, Larson-Meyer DE, Blaudeau TE, Newcomer BR. Cardiovascular factors explain genetic background differences in VO₂max. *Am J Hum Biol*. 18:454-460. 2006.

Walsh MC, Hunter GR, Livingstone MB. Sarcopenia in premenopausal and postmenopausal women with osteopenia, osteoporosis and normal bone mineral density. *Osteoporosis Int*. 17(1):61-67, 2006.

Nold L, Menear, KS, Roy, JL, Hunter, GR. Case study of Achilles tendon rupture in clubfoot athlete. *Alabama State Association of Health, Physical Education, and Recreation and Dance Journal*, Spring, 19-23, 2006.

McCarthy JP, Hunter GR, Larson-Meyer DE, Bamman MM, Landers KA, Newcomer BR. Ethnic differences in triceps surae muscle –tendon complex and walking economy. *Strength and Conditioning Research*. 20(3):511-518, 2006.

Hunter GR. *Physical Activity, Fitness, and Health in Modern Nutrition in Health and Disease*. Edited by Shils, Shike, Ross, Caballerok and Cousins. Lippincott Williams & Wilkins. 2005.

Byrne NM, Hills AP, Hunter GR, Weinsier RL, Schutz Y. The metabolic equivalent: One size does not fit all. *J Appl Physiol*. 99:1112-1119, 2005.

Hunter GR, Bamman MM, Larson-Meyer DE, Joannisse DR, McCarthy JP, Blaudeau TE, Newcomer BR. Inverse relationship between exercise economy and oxidative capacity. *Eur J Appl Physiol* 94:558-568, 2005.

Lara-Castro C, Hunter GR, Lovejoy JC, Gower BA, Fernandez JR. Adiprotein A-II polymorphism and visceral adiposity in African-American and White women. *Obes Res* 13:507-512, 2005.

Hunter GR, Lara-Castro C, Byrne NM, Zakharkin SO, Onge MP, Allison DB. Weight loss needed to maintain visceral adipose tissue during aging. *Int J Body Comp Res* 3(2):55-61, 2005.

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J. Olson, G. Hunter. "Safety Standards for Strength Training Facilities." Athletic Facilities and Purchasing, Vol. 7, No. 1, pg. 29-32, 1983.

G. Hunter, W. Morgan. "To Splint or Not to Splint." The Physician and Sport Medicine, letter to the editor, Vol. 10, 1982.

G. Hunter, R. Hunter. "Avulsion Fractures of the lower Cervical Vertebra in Lifting." National Strength and Conditioning Association Bulletin, Vol. 3, No. 5, pg. 1, 1981.

G. Hunter. "Systolic Blood Pressure as an Indicator of Overtraining." International Olympic Lifter, Vol. 7, 1980.

Presentations at Professional Meetings – In addition over 140 poster/free communication presentations have been made but not listed.

Invited lecture: G. Hunter. "Cellular Adaptations of Muscle to Strength Training." Michigan State University Strength and Weight Lifting Symposium, 1977.

Invited lecture: G. Hunter. "Weight Training Principles for Sportsmen." Second Middle East Sport Science Symposium, 1978.

Invited lecture: G. Hunter. "The Effects of Sodium Bicarbonate Ingestion on Acid-Base Parameters Associated with Exhaustive Work." Asian Congress of Sports Science Symposium, 1979.

Invited lecture: G. Hunter. "Heat Stress and Sport in a Hot Environment." Third Middle East Sport Science Symposium, 1979.

Invited lecture: G. Hunter. "Methods for Dietary Recall Procedures in an Arab Country." International Committee for Performance and Fitness Research Middle East Meeting, 1979.

G. Hunter. "Effect of Sodium Bicarbonate Supplementation on All Out Work." State MAHPER Convention, Grand Rapids, MI, 1979.

G. Hunter, K. Boorsharya, B. Smoak, K. Ho, and W. Heusner. "The Effects of Sodium Bicarbonate and Diet Upon Acid-Base Balance in Exhaustive Work of Short Duration." American College of Sports Medicine Annual meeting, 1980.

G. Hunter, and W. Van Huss. "Differential Rate of Recovery from Maximal High Intensity Exercise in Basketball Players and Distance Runners." American College of Sports Medicine Meetings, June, 1982.

Invited lecture: G. Hunter. "Weight Training Induced Performance and Anthropometric Changes in College Age Males." American Alliance for Health, Physical Education, Recreation and Dance Meetings, April, 1983.

G. Hunter. "Strength and Endurance Training in Previously Untrained and Endurance Trained Subjects." National Strength and Conditioning Association National Meeting, June 1984.

G. Hunter. "Strength, Body Composition and Anthropometric Changes in Men and Women as a Consequence of 12 Weeks Weight Training." Strength and Conditioning Association National Meeting, June 1984.

G. Hunter. "Validation of the Vertical Accelerometer for Estimating Energy Expenditure During Various Activities." Midwest District Convention American Alliance for Health, Physical Education, Recreation and Dance, February 1985.

G. Hunter, M. Culpepper, and T. Cheung. Comparison of Fifth Lumbar Torque During Two Techniques in the Olympic Snatch. G. Alabama Academy of Science, March 1985.

Invited lecture: G. Hunter. "Variables of Program Design." National Strength and Conditioning Association Meeting, June 1985.

G. Hunter. "A Comparison of Fifth Lumbar Torque, Shear, and Compression During Two Techniques of the Olympic Snatch." National Strength and Conditioning Association National Meeting, June 1985.

G. Hunter and L. Dunnam. "Oxygen Uptake and Blood Lactate As a Consequence of Bench Pressing at Different Intensities." National Strength and Conditioning Association Meeting, 1986.

G. Hunter, M. Culpepper. "Uniform Increases in Knee Extension Torque as a Consequence of Fixed Resistance Isotonic Training." American College of Sports Medicine National Meeting, May 1986.

Invited lecture: G. Hunter, J. Hilyer. "Development of Fitness Test for Selection of Candidates for Fireman's Academy." SEAAHPERD. February, 1987.

G. Hunter. "The Effects of Back Support Devices on Hemodynamics During Exercise." SEAAHPERD, February, 1987.

Invited lecture: G. Hunter. "Blood Pressure Responses to Weight Training." National Strength and Conditioning Association Meeting. June 1987.

Invited lecture: G. Hunter. "Aerobic Exercise Prescription Program Guidelines. NSCA National Certification Workshop." Las Vegas. June 1987.

Keynote research presentation: G. Hunter. "Why Weight Train." State AAHPERD Meeting. November 1987.

Invited lecture: G. Hunter. "Defining Cardiovascular Fitness: Effects of Exercise on the Respiratory System, Cardiovascular System, and Body Composition." American Heart Association Sports Nutrition and Cardiovascular Fitness Symposium. September 1988.

Invited lecture: G. Hunter. "Aerobic Exercise Prescription Program Guidelines." NSCA National Certification Workshop." Orlando. June 1988.

Invited lecture: G. Hunter. "Aerobic Fitness Parameters." NSCA National Certification Workshop. Orlando, FL - Denver, July 1989.

Invited lecture: G. Hunter. "Physiology of Anaerobic Fitness." Diplomate Sports Medicine Series. Los Angeles, September, 1991.

Invited lecture: G. Hunter. "Exercise Testing and Prescription." Southern Association for Cardiovascular and Pulmonary Rehabilitation. Birmingham, April, 1991.

G. Hunter, (with R. Koester). "Estimation of CT Derived Abdominal Fat Patterning." American College of Sports Medicine National Meeting, Dallas, Texas, May, 1992.

G. Hunter. "Estimation of Abdominal Fat Patterning Using BIA Analysis and Anthropometric Measures Analysis. American College of Sports Medicine National Meeting, Dallas, Texas, May, 1992.

G. Hunter. "Weight Rebound Following Weight Loss: A Four Year Follow-up." International Conference on Obesity and Exercise. Bethesda, Maryland, December 1992.

Invited lecture: G. R. Hunter. "Body Composition Analysis." American Heart Association Body Composition Workshop. Birmingham, Alabama, February 1993.

Invited lecture: G. R. Hunter. "Programming for Aerobic Conditioning." NSCA National Meeting, June 1993.

Invited lecture: G. Hunter. Anerobic Exercise Invited Lecture Diplomate Sports Medicine Series. Los Angeles, march 1994.

G. R. Hunter, M. M. Smith, R. L. Weinsier, T. Kekes-Szabo, T. Berland. Impact of Resistive Training on the Relationship Between Body Fat Pattern and Blood Lipids. International Congress of Obesity, Toronto, August, 1994.

G. R. Hunter, FACSM, T. Kekes-Szabo, M. M. Smith, C. Nicholson, M. White, R. L. Weinsier. The Effects of Strength Training on EMG During Activities of Daily Living In Older Women. American College of Sports Medicine National Meeting, May 1994.

G.R. Hunter, C. Pichon, et al. Fat Distribution, Physical Activity, and Cardiovascular Disease Risk in Women. Am. College of Sports Med. national meeting, Minneapolis, June 1995.

G. Hunter, K. Jones. Force platform plyometric push-up test for determining upper body power. Nat Strength and Cond Nat Meeting. Atlanta, June, 1996.

G. Hunter, L. Larson. The effects of weight loss on exercise economy, difficulty, and aerobic fitness. NASSO. Breckenridge Colorado, October, 1996.

Invited lecture: G Hunter. Aerobic Training Progamming. CSCS workshop. Las Vegas, June, 1997.

G Hunter, R Weinsier. A new method for deterining free-living energy energy expenditure. NASSO meetings Cancun Mx, Nov. 1997.

G Hunter. Chair, symposium on Muscle metabolism and effects on obesity. Cancun, Mx, Nov. 1997.

G Hunter, R Weinsier, Skeletal muscle metabolism, Cancun, Mx Nov. 1997.

G. Hunter, R. Weinsier, P. Zuckerman et al. Ethnic differences in energy expenditure and aerobic fitness. ACSM national meeting. Seattle, WA, June, 1999.

G. Hunter, R. Weinsier, P. Zuckerman, B. Darnell, B. Gower, M. Goran. Correlates of weight gain in black and white premenopausal women. NAASO meeting. Charleston, SC, Nov. 1999.

GR Hunter, et al Inverse relationship between metabolic muscle economy and exercise intensity using ³¹P MRS. ACSM meeting Indianapolis, June, 2000.

Invited lecture: GR Hunter, Activity related energy expenditure and weight maintenance. University of Lausanne, Lausanne Switzerland.

Invited lecture: GR Hunter, The importance of intensity of exercise on energy expenditure and weight control. NSCA Meeting, Spokane, July 2001.

GR Hunter et al The relationship between 31P MRS muscle metaboism and free-living energy expenditure. NAASO Meeting, Quebec City, October, 2001.

Hunter GR, Weinsier RL. The importance of intensity of exercise on energy expenditure, weight control, and risk of chronic disease. Am College Sports Med, Atlanta, Jan. 2003.

Invited lecture: Hunter GR Physiology of Aging. Queensland University of Technology 2005 Research Fellowship Lecture, Brisbane Australia, June 2005.

Invited lecture: Hunter GR Resistance training and Metabolism. Australia Society for Prevention of Obesity. Brisbane Australia, May 2005.

Hunter GR, Byrne NM, Gower BA Increased REE 20 hours following 40 minutes aerobic but not resistance exercise. North American Association for the Study of Obesity Yearly meeting. Vancouver, Canada. October, 2005.

Invited lecture: Hunter GR. Resistance training in the aging adult. American College of Sports Medicine Sports Medicine Workshop. Huntsville AL. August 2005.

Invited lecture: Hunter GR Importance of high intensity exercise in weight management and health. Grand Rounds Spain Rehab. UAB September, 2005.

Invited lecture: Hunter GR. Guidelines for obtaining NIH funding for non Americans. Queensland University of Technology, Brisbane Australia, August 2006.

Invited lecture: Hunter, GR Sarcopenic Obesity. Invited lecture. International Congress on Obesity Brisbane Australia, Sept, 2006.

Invited lecture: Hunter, GR Resistance training in the treatment and prevention of obesity. ACSM Invited Lecture Integrative Physiology of Exercise Meetings, Indianapolis, September 2006.

Invited lecture: Hunter, GR Why we should lose weight Loss as we age Center for Aging, UAB 2007.

Invited lecture: Hunter, GR Sarcopenic Obesity. Vascular Biology & Hypertension Program, 2007.

Invited lecture Hunter GR. Impact of exercise on metabolic health. Integrative Physiology Meetings. Indianapolis August 2007.

Invited lecture Hunter, GR. Impact of resistance training on diabetes risk. American Diabetes Association Meetings San Francisco June 2009.

Hunter, GR Resistance training for maintaining weight ACSM National Meeting. 2010

Key note address: Hunter, GR Racial/Ethnic Differences: Implications for Health/Performance. Exercise Physiology Academy/AAHERPD national meeting, San Diego, 2011.

Hunter, GR Comparison of Nutrition vs Exercise in Obese People. PRONAF international conference, Madrid Spain, Dec 2011

Hunter, GR NORC pre doctoral fellow Metabolism following exercise. June 2012.

Hunter, GR Body Composition/Energy Expenditure Class July 2012.

Hunter, GR Coaching Class October 2012.

Hunter, GR Metabolic Health, Junior League, January 2013.

Hunter, GR Factors affecting stretch-shortening potentiation and running economy. ACSM southeast regional meeting, February, 2013.

Hunter, GR Exercise: Measurement and Impact on Obesity. Obesity in the 21st Century, February 2013.

Hunter, GR Seminar PT/OT students, March 2013.

Hunter, GR First Annual Gary R. Hunter, Distinguished Lecture, Center for Exercise in Medicine, 2013