

Curriculum Vitae

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EDUCATION:

B.S. Biology, 1988 – University of Puerto Rico
M.A. Secondary Science Education, 1992 – Columbia University
Ph.D. Doctor of Philosophy, 1999 – The Pennsylvania State University
Postdoctoral Obesity Research Center, 1999-2001 – St. Luke's/Roosevelt Hospital Center

ACADEMIC APPOINTMENTS:

2001 Adjunct Assistant Professor, Teachers College-Columbia University; Department of Science Education
2001- 2007 Assistant Professor, Division of Physiology and Metabolism, Department of Nutrition Sciences, University of Alabama at Birmingham (UAB)
2001- 2007 Assistant Professor (Secondary), Section on Statistical Genetics, Department of Biostatistics, UAB
2001- pres Scientist, UAB Center for Aging
2001- pres Associate Scientist, UAB Clinical Nutrition Research Center
2004- pres Associate Scientist – UAB Minority Health Research Center
2006- 2011 Co-Director, Genetic Core, UAB Minority Health Research Center
2007- 2013 Co-Director, Genetic Core, UAB Nutrition and Obesity Research Center
2007- pres Vice Chair for Education, UAB Department of Nutrition Sciences
2007- 2013 Tenured Associate Professor, Department of Nutrition Sciences, University of Alabama at Birmingham (UAB)
2010- pres Director for Diversity Outreach, UAB Office of Diversity and Equity
2012- pres Associate Director for Education – Nutrition and Obesity Research Center Post Doctoral Training (T32)
2013- pres Professor (Secondary), Section on Statistical Genetics, Department of Biostatistics, UAB
2013- pres Tenured Professor, Department of Nutrition Sciences, University of Alabama at Birmingham

AWARDS:

1983	Beckton and Dickinson's Fellowship for Academic Achievement
1992	Bronx Superintendent's Office Teacher of the Year Award
1994	The Pennsylvania State University Graduate School Minority Fellowship
1995	Puerto Rican Student Association Award for Outstanding Achievement
1995	National Institute of Child Health and Human Development Predoctoral Fellowship
1999	National Institute of Environmental Health Sciences (NIEHS) Post-Doctoral Fellowship for Underrepresented Minorities
2005	Best Scientific Paper in Nutrition Sciences from the Unbound Science Foundation
2007	UAB President's Faculty Diversity Award
2007	UAB School of Health Professions Excellence in Service Award
2008	UAB Minority Health Research Center Charles Barkley Young Investigator Award
2008	UAB Minority Health Research Center Post-Doctoral Mentoring Award
2010	UAB Dean's Award for Excellence in Mentorship
2012	UAB School of Health Professions Joseph F Volker Outstanding Faculty Award
2014	Dannon Institute's Academic Mid-Career Nutrition Leadership Institute Class of 2014

GRANT SUPPORT (PRESENT):

1. NIH/NIDDK (1P30DK56336), Co-investigator, *UAB Clinical Nutrition Research Unit*, (Principal Investigator: David B. Allison, PhD)
2. NIH/NIDDK (R01 DK062148), Co-investigator, *Training Interventions and Genetics of Exercise Response (TIGER)* (Principal Investigator: Molly Bray, PhD)
3. NIH/NIDDK (R01DK096388), Co-Investigator, *Race-adiposity interactions regulate mechanisms determining insulin sensitivity* (Principal Investigator, Barbara Gower, PhD).

GRANT SUPPORT (PREVIOUS):

1. Columbia Center for the Active Life of Minority Elders, (two-year award), **Principal Investigator**, *Genetic Admixture and Body Fat in Puerto Rican Elderly Females*; \$50,000 for the period of 10/2000 to 10/2002.
2. Funded by NARSAD, Co-Investigator, *Role of the 5HT2c Receptor in Antipsychotic Induced Weight Gain*; (Principal Investigator: David B. Allison, PhD) \$83,000 for the period of 9/2000 to 9/2002.
3. Funded by Eli-Lilly & Co., Co-Investigator, *Rodent Models of Anti-Psychotic Induced Weight Gain; Pharmacogenetics & Mechanisms of Action*; (Principal Investigator: Dr. David B. Allison) \$142,520 for the period of 9/2000 – 9/2002.
4. UAB Clinical Nutrition Research Center, **Principal Investigator**, *Genetic Admixture in Physical Activity in African- and European- American Women*; \$50,000 for the period of 6/2002 – 5/2004.
5. NIH/NIDDK (3R01DK49779-06A1S1), Co-Investigator, Minority Supplement Application to grant, *Exercise Training in Obesity-Prone Black and White Women*; (Principal Investigator: Roland Weinsier, MD) \$65,548 for the period of 12/2001 – 11/2004.
6. NIH/NCMHD (1P60MD002251), Co-investigator at 10% effort, *Comprehensive Minority and Health Disparities Research Center (MHDRC)*, (Principal Investigator: Mona Fouad, MD)
7. NIH/NIDDK (1R01DK067426-01), **Principal Investigator** at 35% effort, *Admixture Mapping for Insulin Complex Outcome*, \$261,000 annual direct costs for the period of 4/1/2004-12/31/10.
8. NIH/NIGM (R01 GM77490), Co-investigator at .60 calendar effort, *Genome-wide Structured Association Testing & Regional Admixture Mapping*, (Principal Investigator: David B. Allison,

- PhD)
9. NIH/NIDDK (R01 DK078328), Co-investigator at .66 calendar effort, *Identification of Muscle Specific Biomarkers of Fatty Acid Beta-Oxidation*, (Principal Investigator: Sean Adams, MD)
 10. NIH/NIDDK (P60DK079626), Principal investigator, *Development of a Virtual Supermarket*, project as part of the UAB Diabetes Research and Training Center (Principal Investigator, W Tim Garvey).
 11. NIH/NIDDK (R01 DK084219), Co-Investigator, *Genetic Control of Quantitative Traits Associated with the Metabolic Syndrome* (Principal Investigator: Maria DeLuca, PhD).

PROFESSIONAL AFFILIATIONS:

American Diabetes Association
 American Society for Nutrition
 International Society for Hypertension in Blacks
 The Obesity Society (TOS)

SERVICE:

Editorial Boards:

International Journal of Obesity (2006 – 2014)
Ethnicity and Disease (2008 – pres)

Journal reviewer for:

Diabetes, Diabetes Care, Human Heredity, Human Biology, Journal of Clinical Endocrinology and Metabolism, Obesity Research, Journal of Pediatrics, American Journal of Public Health, American Journal of Epidemiology, JAMA Pediatrics, Archives of Medical Research

Grant reviewer for:

UAB Charles Barkley Minority Research Award, University of Southern California TREC Pilot/Feasibility Grants, NIH Social Sciences, Nursing, Epidemiology, and Methods (SNEM) Integrated Review Group 5 (June 2003), NIH Health of the Population (HOP) Integrated Review Group (October 2005), NIH Epidemiology of Cancer (EPIC) Health of the Population Integrated Review Group (February 2007, June 2007, Permanent Member from 2008-2012), Canadian Cancer Society Research Institute (CCSRI) Prevention Research Grant Panel (June 2014)

Committee Memberships:

UAB Committees

2001 - 2003	Co-Chair , Section on Statistical Genetic Educational Committee, Department of Biostatistics
2001 - 2005	Chair , UAB Diversity Promotion Panel
2004 - 2006	School of Health Profession Academic Affairs Committee
2004 - 2011	Member of the Advisory Board to the UAB Vice President of Equity and Diversity
2004 - 2006	Search Committee for Biochemistry and Molecular Biology Faculty, Department of Nutrition Sciences

- 2005 Member of the School of Medicine Strategic Planning Committee for Diabetes/Metabolic Diseases
- 2005 Member of the School of Medicine Strategic Planning Committee for Health Disparities
- 2005 Member of the School of Medicine Strategic Planning Committee for Graduate Education
- 2005 - 2009 **Chair and co-founder** of “Manos Juntas”, UAB Hispanic/Latino mentoring program
- 2005 - 2010 **Leader and co-founder** of Nutrition Task Force for a Healthier Alabama, an initiative from the Department of Nutrition Science to provide nutrition education to the community
- 2005 - 2007 Department of Nutrition Sciences Educational Committee
- 2006 Leader of the ad-hoc committee to evaluate the effectiveness of the Diversity Awareness Education training from the UAB Office of the Vice President for Equity and Diversity
- 2006 - 2011 Member of the Minority Faculty and Student Affairs Committee, UAB Office of the Vice President for Equity and Diversity
- 2006 School of Health Professions School-wide Search Committee
- 2007 UAB Knight Case Diversity Advisory Committee
- 2007-2011 **Chair**, School of Health Professions Diversity Committee
- 2007 Member of the Committee to evaluate UAB Employee Satisfaction Survey
- 2008 – 2013 Member of the SHP Genetic Counseling Advisory Board Committee
- 2012 Member of the UAB Provost Search Committee
- 2013 Member of Ingalls/UAB NAS Award Selection Committee

National/International Committees

- 2002 Member of the Ethics Committee for the International Association for the Study of Obesity (IASO)
- 2005 - 2006 Member of NAASO Search Committee for the Executive Director
- 2005 - 2007 **Co-Chair** and Member of NAASO Task Force for Women and Minority
- 2005 - 2008 Secretary/Treasurer of NAASO Latin American Issues Interest Group
- 2005 – 2008 Member of the NAASO Membership Committee
- 2008 - 2009 Chair of The Obesity Society (TOS) Diversity Committee
- 2009 – 2011 Co-Chair of TOS Early-Career Investigators Committee
- 2010 Panel Member, NIH Consensus Development Conference: Lactose Intolerance and Health
- 2014 Member of the Genetic and Genealogy Curriculum Committee, Penn State University

RESEARCH EXPERIENCE AND TRAINING:

- 1996 Coordinator, *Drosophila* behavior laboratory, French/American Summer School in Behavioral Neurogenetics, The Pennsylvania State University
- 1996 Participant, Intensive Short Course in High Performance Liquid Chromatography (HPLC), The Pennsylvania State University
- 1996 Participant, Workshop in Latent Transition Analysis, The Pennsylvania State University

- 1996 Participant, Workshop in Catastrophe Theory, The Pennsylvania State University
- 1997 Participant, Ninth Annual twin Methodology Workshop, Boulder, Colorado
- 1998 Research Assistant, Gene Mapping for Quantitative Cardiovascular Risk Factors Project, Department of Biobehavioral Health, The Pennsylvania State University
- 1998 Participant, Workshop in genetics of nonlinear dynamic systems, NIH Educational Workshops in Interdisciplinary Research, The Pennsylvania State University
- 1998 Participant, Short course on Statistical Analysis for Genetic Epidemiology, Cleveland, Ohio
- 1999-1994 Person-in-Charge of the *Drosophila* laboratory, Center for Developmental and Health Genetics, The Pennsylvania State University
- 1999 Participant, Introduction to Structural Equation Modeling with Amos Workshop, The Pennsylvania State University
- 1999 Participant, Twelfth International Workshop on Methodology of Twin and Family Studies, Boulder, Colorado
- 2000 Participant, An Introduction to Logistic Regression Workshop, An American Statistical Association Short Course
- 2000 Participant, Advance Workshop in Linkage and Linkage Disequilibrium Methods, The Rockefeller University
- 2001 1st Annual NSF-funded Microarray Network Retreat, Mohonk Mountain House, New Paltz, NY
- 2004 Summer Workshop in Statistical Genetics, North Carolina State University
- 2005 UAB Genetic Admixture Seminar, Organizer
- 2006 Program for Genetic Applications (PGA) Traveling Tutorials, UAB
- 2008 UAB New Genetics Workshop, Co-organizer, UAB
- 2009 FASEB Summer Conference “The Physiological Basis for Obesity Therapeutics”, Co-organizer, Snowmass, Colorado
- 2010 UAB Developmental Origins of Obesity Workshop, Co-organizer
- 2013 Participant, UAB Genetics and Genomics Workshop

TEACHING EXPERIENCE:

- 1992 Evaluator of multicultural-biology curriculum, NYC Board of Education Multicultural Curriculum Committee
- 1988 - 1994 Bilingual Science Teacher, South Bronx High School
- 1992 - 1994 Bilingual House Coordinator and Teacher, South Bronx High School
- 1992 - 1994 Instructor for the Phoenix 1000, Lehman College – City University of New York
- 1998- 1999 Instructor, Intersession course ‘Introduction to Human Sexuality.’ Department of Biobehavioral Health, The Pennsylvania State University
- 1998 - 1999 Teaching Assistant, Spring Semester course ‘Developmental and Health Genetics’ (lectures: QTL in animal models, Genes on and off in animal models, Chromosome anomalies). Department of Biobehavioral Health, The Pennsylvania State University
- 2001 Adjunct Assistant Professor at Teachers College-Columbia University, Department of Math, Science and Technology
- 2001 Faculty at the 2nd Annual NIH-funded Short Course on Statistical Genetics for Obesity and Nutrition Researchers, Quebec, Canada, October 6-7
- 2003 Faculty at the 3rd Annual NIH-funded Short Course on Statistical Genetics for Obesity and Nutrition Researchers, Birmingham, AL, February 6-9
- 2010 Faculty at the 4th International Spanish Course in Obesity, San Antonio, Texas, USA.

2011	Faculty at the 5 th International Spanish Course in Obesity, San Antonio, Texas, USA.
2012	Faculty at the 6 th International Spanish Course in Obesity, San Antonio, Texas, USA.
2013	Faculty at the 7 th International Spanish Course in Obesity, San Antonio, Texas, USA.
2014	Faculty at the 8 th International Spanish Course in Obesity, San Antonio, Texas, USA.

COURSES DEVELOPED AT UAB

BST 675	Introduction to Statistical Genetics (3 credits)
NTR779	Obesity in the XXI Century (3 credits)
NTR769	Race, Nutrition and Health (3 credits)

COURSES TAUGHT (COURSE MASTER) AT UAB

NTR778	Special Topics in Nutrition Sciences
NTR788	Advanced Nutrition Seminar
NTR779	Obesity in the XXI Century
NTR698	Master's Level Non-Dissertation Research
NTR699	Master's Level Dissertation Research
NTR798	Doctoral Level Non-Dissertation Research
NTR799	Doctoral Level Dissertation Research

HIGH SCHOOL AND UNDERGRADUATE TRAINEES:

2007	TiShari McFarland – Tuskegee University. Minority Summer Student. (Primary mentor)
2008	Engram Wilkinson – Jefferson County International Baccalaureate High School. Research Intern for Fall 2008 to Spring 2009 (Primary mentor)
2009	Guillermo Rodriguez - Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics
2009	Giulliana Murati – Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (Primary mentor)
2009	Harold Willis – Minority Student from the UAB McNair Summer Program. (Primary mentor)
2010	Grace Delgado – Universidad del Turabo – Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (Primary mentor)
2011	Shantel L. Gray – University of Alabama at Birmingham. Minority Summer Student for the NIDDK STEP-UP Program (Primary mentor)
2011	Patrick Bearden – Jefferson County International Baccalaureate High School. Research Intern for Fall 2011 (Primary mentor)
2012	Anna C. Flores Maddox – Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (Primary mentor)
2009-2012	Adil Justin Malek – University of Alabama at Birmingham Honor Student. Accepted at UAB Medical School in 2012. (Primary mentor)

- 2013 Wilnerys Hernandez-Colberg - Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (**Primary mentor**)
- 2014 Wilnerys Hernandez-Colberg - Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (**Primary mentor**)
- 2014 Dayanara Lebron - Universidad Metropolitana de Puerto Rico. Participant of the Minority Exchange Program between Ana G Mendez Educational Foundation in Puerto Rico and UAB Section on Statistical Genetics (Secondary mentor)

INTERNATIONAL TRAINEES:

- 2014 Maricela Rodriguez – Post doctoral Trainee from Nutrition Unit of the Mexican National Institute for Social Security, Mexico City, Mexico (**Primary mentor**)
- 2014 Akoy Burcu – Graduate student Summer Trainee from Hacettepe University, (**Primary mentor**)

GRADUATE COMMITTEE MEMBERSHIPS:

CURRENT

Predoctoral students:

- Yenni Cedillo. University of Alabama at Birmingham, Expected Graduation 2015 (Department of Nutrition Sciences – **Committee Chair**)
- Camille Schneider - University of Alabama at Birmingham, Expected Graduation 2018 (Department of Nutrition Sciences)

PAST

Masters students:

- Nihal Natour, BS. University of Alabama at Birmingham, Graduated in 2006 (**Committee Chair**)
- Marie-Hipp Boni Epse Attobla, MD. University of Alabama at Birmingham, Graduated in 2013 (Committee Member)
- Keith Pearson. University of Alabama at Birmingham, Expected Graduation 2017 (Department of Nutrition Sciences – **Committee Chair**)

Predoctoral students:

- 2002 Cristina Lara-Castro, MD PhD. University of Alabama at Birmingham, Graduated in 2003 (Department of Nutrition Sciences - **Committee Chair**)
- 2004 Chenxi Wang, MD PhD. University of Alabama at Birmingham, Graduated in 2004 (Department of Nutrition Sciences)
- 2006 Paul B Higgins, BS. University of Alabama at Birmingham, Graduated in 2006 (Department of Nutrition Sciences)
- 2006 Radhika P. Phadke, MD. University of Alabama at Birmingham, Graduated in 2006 (Department of Nutrition Sciences)

- 2009 Nikki Bush, MS. University of Alabama at Birmingham, Expected Graduated in 2010 (Department of Nutrition Sciences)
- 2005 Amanda Willig, MS. University of Alabama at Birmingham, Graduated in 2010 (Department of Nutrition Sciences - **Committee Chair**)
- 2008 Lynae Hanks. University of Alabama at Birmingham, Graduated in 2011 (Department of Nutrition Sciences – **Committee Chair**)
- 2012 Gaurav Nayyar. University of Alabama at Birmingham Graduated in 2012 (Department of Nutrition Sciences)
- 2012 Amy Miskimon, University of Alabama at Birmingham, Graduated in 2012 (Department of Nutrition Sciences)
- 2012 Michelle Cardel. University of Alabama at Birmingham, Graduated in 2012 (Department of Nutrition Sciences – **Committee Chair**)

POSTDOCTORAL FELLOWS:

- 2004 - 2006 Jasmine Divers, PhD. University of Alabama at Birmingham
- 2006 – 2011 Krista Casazza, PhD. University of Alabama at Birmingham
- 2007 Jasmine Gaines, PhD. University of Alabama at Birmingham
- 2007 – 2012 Akilah Keita-Dulin, University of Alabama at Birmingham
- 2009 – 2012 Yann Klimentidis, University of Alabama at Birmingham
- 2012 – 2013 Jacqueline Harris, University of Alabama at Birmingham
- 2012 – 2014 Michelle Bohan Brown, University of Alabama at Birmingham

PUBLICATIONS (IN PRESS):

1. Dulin–Keita A, Casazza K, Hannon L, Fernández JR. Perceived Neighborhood Disorder Is Not Associated With Obesity In Children. *J Epi Comm Hlth. In Press.*

PUBLICATIONS (PUBLISHED):

1. Vogler GP, Tang W, Nelson TL, Hofer SM, Grant JD, Tarantino LM, **Fernández JR.** (1997). A Multivariate Model for the Analysis of Sibship Covariance Using Marker Information and Multiple Quantitative Traits. *Genet Epidemiol*, 14: 921-926. PMID: 9433601
2. **Fernández, JR**, Vogler GP, Tarantino LM, Vignetti S, Plomin R, McClearn GE. (1999). Sex-exclusive QTL Influences in Alcohol-related Phenotypes. *Am J Med Genet*, 88, 647-652. PMID: 10581484
3. **Fernández JR**, Grant MD Tulli N, Karkowski L, McClearn GE. (1999). Differences in Locomotor Behavior across the Lifespan of *Drosophila melanogaster*. *Exp Gerontol*, 34 (5) 621-631. PMID: 10530788
4. Allison DB, **Fernández JR**, Heo M, Beasley MT. (2000). Testing the Robustness of the New Haseman-Elston Quantitative Trait Loci (QTL) Mapping Procedure. *Am J Hum Genet*, 67, 249-252. PMCID: PMC1287085
5. **Fernández JR**, Tarantino LM, Vogler GP, McClearn GE. (2000). Epistatic Quantitative Trait Loci for Alcohol Preference in Mice. *Behav Genet*, 30(6), 431-437. PMID: 11523702
6. Allison DB, **Fernández JR**, Heo M, Zhu S, Etzel C, Beasley TM, Amos CI. (2002). Bias in QTL Effect Estimates in Genome Scans: Demonstration of the Phenomenon and a Method-of-Moments (MOM) Procedure for Reducing Bias. *Am J Hum Genet*, 70(3):575-85. PMCID: PMC384937
7. **Fernández JR**, Etzel C, Beasley TM, Shete S, Amos CI Alison DB (2002). Improving the power of sib

- pair quantitative trait loci detection by phenotype winsorization. *Hum Hered* 53(2): 59-67. PMID: 12037405
8. Allison DB, Gadbury G, Heo M, **Fernández JR**, Lee C-K, Prolla TA, Weindruch R. (2002). A Mixture Model Approach for the Analysis of Microarray Gene Expression Data. *Computational Statistics & Data Analysis*, 39 1–20.
 9. **Fernández JR**, Heo M, Heymsfield SB, Pierson RN Jr., Pi-Sunyer X, Wang ZM, Wang J, Hanyes M, Allison DB, Gallagher D. (2003). Is Percent Body Fat Differentially Related to BMI in Hispanics-African- and European Americans? *Am J Clin Nutr*, 77(1): 71-75.
 10. Gower BA, **Fernández JR**, Beasley TM, Shriver MD, Goran M. (2003). Using Genetic Admixture to Explain Racial Differences in Insulin-related Phenotypes. *Diabetes* 52(4):1047-1051. PMID: 12663479
 11. **Fernández JR**, Shriver MD, Beasley TM, Rafla-Demetrious N, Parra E, Albu J, Nicklas B, Ryan AS, McKeigue PM, Hoggart CL, Weinsier R, Allison DB. (2003). Association of African Genetic Admixture with Resting Metabolic Rate and Obesity Among African American Women. *Obes Res*, 11: 904-911. PMID: 12855761
 12. Etzel CJ, Shete S, Beasley TM, **Fernández JR**, Allison DB, Amos CI. (2003). Effect of Box-Cox Transformation on Power of Haseman-Elston and Maximum-likelihood Variance Components tests to Detect Quantitative Trait Loci. *Hum Hered*, 55: 108-116. PMID: 12931049
 13. **Fernández JR**, Allison DB. (2003). Understanding Racial Differences in Obesity and Metabolic Syndrome Traits. *Nutr Rev*, 61(9): 316-319. PMID: 14552068
 14. Wang C, Weindruch R, **Fernández JR**, Coffey CS, Patel P, Allison DB. (2004). Caloric Restriction and Body Weight Independently Affect Longevity in Wistar Rats. *Int J Obes Metab Disord*, 28(3):357-362. PMID: 14724654
 15. Shete S, Beasley M, Etzel C, **Fernández JR**, Chen J, Allison DB, Amos CI. (2004). Effect of Winsorization on Power and Type 1 Error of Variance Components and Related Methods of QTL Detection. *Behav Genet*, 34(2): 153-159. PMID: 14755180
 16. **Fernández JR**, Allison DB. (2004). Rimonabant Sanofi-Synthelabo. Current Opinion in *Invest New Drugs*, 5: 430-435.
 17. Bonilla C, Shriver MD, Parra EJ, Jones A, **Fernández JR**. (2004). Ancestral Proportions and their Association with Skin Pigmentation and Bone Mineral Density in Puerto Rican Women from New York City. *Hum Genet*, 15(1): 57-68. PMID: 15118905
 18. Redden DT, **Fernández JR**, Allison DB. (2004). A Simple Significant Test for Quantile Regression. *Stat Med*, 23:2587–2597. PMID: 18329400
 19. **Fernández JR**, Shriver MD. (2004). Using Genetic Admixture to Study the Biology of Obesity Traits and to Map Genes in Admixed Populations. *Nutr Rev*, 62(7): S69 - S74. PMID: 15387470
 20. **Fernández JR**, Redden D, Pietrobelli A, Allison DB. (2004). Waist Circumference Percentiles in Nationally Representative Samples of Black, White and Hispanic Children. *J Pediatr*, 145(4): 439-444. PMID: 15480363
 21. Lara-Castro C, Hunter GR, Lovejoy JC, Gower BA, **Fernández J R**. (2005). Association of the Intestinal Fatty Acid Binding Protein Ala54Thr Polymorphism and Abdominal Adipose Tissue in African American and Caucasian Women. *J Clin Endocrinol Metab*, 90(2):1196-1201. PMID: 15572430
 22. Cope MB, Nagy TR, Geary ND, **Fernández JR**, Casey, DE, Allison, DB. (2005). Antipsychotic Drug-induced Weight Gain: Development of an Animal Model. *Int J Obes*; 29(6): 607-614. PMID: 15795750
 23. Lara-Castro, C, Hunter GR, Lovejoy JC, Gower BA, **Fernández JR**. (2005). Apolipoprotein A-II Polymorphism and Visceral Adiposity in African-American and White Women. *Obes Res*, 13(3): 507-512. PMID: 15833935
 24. Zakharkin SO, Belay A, **Fernández JR**, De Luca V, Kennedy JL, Sokolowski, MB, Allison DB. (2005). Lack of Association Between Polymorphism of the Cyclic GMP - Dependent Protein Kinase Gene and Obesity. *Int J Obes Relat Metab Disord*, 29(7):872-874. PMID: 15917860

25. Shriver MD, Mei R, Parra EJ, Sonpar V, Halder I, Tishkoff SA, Schurr TG, Zhadanov SI, Osipova LP, Brutsaert TD, Friedlaender J, Jorde LB, Watkins WS, Bamshad MJ, Gutierrez G, Loi H, Matsuzaki H, Kittles RA, Argyropoulos G, **Fernández JR**, Akey JM, Jones KW. (2005). Large-scale SNP Analysis Reveals Clustered and Continuous Patterns of Human Genetic Variation. *Hum Genet*, 2(2):81-89. PMID: 16004724
26. Higgins PB, **Fernández JR**, Goran MI, Gower BA. (2005). Early Ethnic Difference in IGF-1 is Associated with African Genetic Admixture. *Pediatr Res*, 58(5): 850-854. PMID: 16183814
27. Roy JL, Hunter GR, **Fernández JR**, McCarthy JP, Larson-Meyer DE, Blaudeau, TE, Newcomer, BR. (2006). Cardiovascular Factors Explain Racial Differences in VO₂max. *Am J Hum Biol*, 18(4): 454-460. PMID: 16788902
28. Redden DT, Divers J, Vaughan LK, Tiwari HK, Beasley TM, **Fernández JR**, Kimberly RP, Feng R, Padilla M, Liu N, Miller MB, Allison DB. (2006) Regional Admixture Mapping and Structured Association Testing: Conceptual Unification and an Extensible General Linear Model. *PloS Genet*, 2(8); e137. PMCID: PMC1557785
29. **Fernández JR**, Willig A, Jones A, Shriver MD, Albu J, Allison DB (2006). Genetic Admixture is Associated with Visceral Adipose Tissue in Puerto Rican Women. *Int J Body Com*, 4(3): 137-143.
30. Munoz J, Lok KH, Gower BA, **Fernández 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. PMID: 17130514
31. Douglas CC, Willig AL, Ard JD, López-Alarcón M, **Fernández JR**. (2006). Nutritional, health and behavioral factors are associated with body composition in elderly Puerto Rican women. *Int J Body Com*, 4(4): 177-183.
32. López-Alarcón M, Hunter GR, Gower BA, **Fernández JR**. (2007). IGF-I Polymorphism is associated with lean mass, exercise economy and performance. *Arch Med Res*, 38(1): 56-63. PMCID: PMC1831461
33. Divers J, Vaughan LK, Padilla M, **Fernández JR**, Allison DB, Redden DT. (2007). Correcting for measurement error in individual ancestry estimates in structured association tests. *Genetics*, 176 (3): 1823-1833. PMCID: PMC19311538
34. Gower BA, Ard J, Hunter GR, **Fernández JR**, Ovalle F. (2007). Elements of the Metabolic Syndrome: Association with Insulin Sensitivity, and Effects of Ethnicity. *Metabolic Syndrome and Related Disorders*, 5:89-98. PMCID: PMC3074467
35. **Fernández JR**, Casazza K, Divers J, López-Alarcón, M. (2007). Disruptions in energy balance: Does nature overcome nurture? *Physiology and Behavior*, 94(1): 105-112. PMCID: PMC2441759
36. Krumdieck CL, **Fernández JR**, Desmond RA, Kleinstein RN, Shipp MD, Prince CW. (2008). C677T Methylene-H4-Folate-Reductase Decreases Binocular Accommodation. *Optometry and Vision Science*, 85 (3): 196-200. PMID: 18317335
37. Halder I, Shriver M, Thomas M, **Fernández JR**, Frudakis T. (2008). A panel of ancestry informative markers for estimating individual biogeographical ancestry and admixture from four continents: utility and applications. *Human Mutation*, 29(5): 648-58. PMID: 18286470
38. Hunter GR, Byrne NM, Sirikul B, **Fernández JR**, Zuckerman PA, Darnell BE, Gower BA. (2008). Resistance training conserves fat-free mass and resting energy expenditure following weight loss. *Obesity*, 16 (5): 1045-51. PMID: 18356845
39. De Luca M, Moses-Chambers M, Casazza K, Lok KH, Hunter GR, Gower BA, **Fernández JR**. (2008). Genetic variation in a member of the laminin gene family affects variation in body composition in Drosophila and humans. *BMC-Genetic*, Aug 11; 9: 52. PMCID: PMC2533007
40. 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 Endocrinol Metab*. Sep 9. PMCID: PMC2626444

41. Lara-Castro C, Doud EC, Tapia PC, Munoz AJ, **Fernández JR**, Hunter GR, Gower BA, Garvey WT. (2008). Adiponectin Multimers and Metabolic Syndrome Traits: Relative Adiponectin Resistance in African Americans. *Obesity*, Sep 25. PMID: PMC2721223
42. Higgins PB, **Fernández JR**, Garvey WT, Granger WM, Gower BA. (2008). Entero-insular axis and postprandial insulin differences in African American and European American children. *Am J Clin Nutr*, 88(5):1277-83, 2008. PMID: PMC2785031
43. Casazza K, del Corral P, Thomas O, Dulin-Keita A, Gower BA, **Fernández JR**. (2009). Characterization of the metabolic syndrome in a multi-ethnic sample of children: Is it useful? *Open Obesity J*, 1(1): 1-8.
44. Casazza K, Dulin-Keita A, PhD, Gower BA, **Fernández JR**. (2009). Differential influence of diet and physical activity on components of metabolic syndrome in a multiethnic sample of children. *J Am Diet Assoc*, 109(2):236-44. PMID: PMC2743425
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53. Hanks LJ, Casazza K, Ashraf A, **Fernández JR.** Factors associated with calcium homeostasis influence resting energy expenditure in peri-pubertal girls. Auburn's Boshell Research Day, Auburn, AL. March 2011
54. Hanks LJ, Casazza K, Ashraf A., Beasley TM, Alvarez JA, **Fernández JR.** Vitamin D-parathyroid hormone relationship is mediated by weight status. American society for Bone Mineral Research Annual Meeting, San Diego, CA. September 2011
55. Hanks LJ, Casazza K, Ashraf A., Beasley TM, Alvarez JA, **Fernández JR.** Vitamin D-parathyroid hormone relationship is mediated by weight status. The Obesity Society Annual Meeting, Orlando, FL. October 2011.

56. Cardel M, Beasley TM, Dulin-Keita A, **Fernández JR.** Validity of the Body Adiposity Index in Children. *Obesity 2011.*
57. Duarte CW, Klimentidis YC, Beasley TM, Cardel M, Harris JJ, **Fernández JR.** TMEM18 genetic risk for BMI is mediated by total lean mass in a multi-ethnic sample of children. *Obesity 2011.*
58. Needham, BL, **Fernández JR,** Epel E, Lin J, Blackburn E. 2011. "Socioeconomic Status and Cell Aging in Children." Presented at the UAB Health Disparities Research Symposium, Birmingham, AL.
59. Kell KP, Cardel M, Bohan Brown M, Fernandez JR. "Added Sugars in the Diet Are Associated with Cardiometabolic Risk Factors in Children". Presented at The Obesity Society annual meeting, 2012.
60. Kell KP, Fernandez, JR. "Added Sugars Associated with Diastolic but not Systolic Blood Pressure in Children". Presented at the Experimental Biology Conference, American Society of Nutrition subcategory, 2012.
61. Cardel M, Lemas D, Fernandez JR. Polyunsaturated fatty acid intakes are associated with lower visceral adiposity, increased lean mass and healthier blood lipids in a multi-ethnic sample of children. International Congress on Circumpolar Health 2012 in Fairbanks, AK .
62. Cardel M, Lemas DL, Fernandez JR. Oral presentation. Greater consumption of polyunsaturated fatty acids are related to increased lean mass and decreased total and visceral adiposity in a racially diverse sample of children. The Obesity Society Annual Meeting, September 20-24, San Antonio, Texas.
63. Pearson KE, Shikany JM, **Fernández JR,** and Judd SE. Americans with Diabetes are Adhering to a Low Glycemic Diet but are Eating a High Fat Southern Diet which is Associated with Cardiovascular Disease. *FASEB J* April 9, 2013 27:120.3
64. Bohan Brown MM, Rodriguez-Cruz M, **Fernández JR.** Gene and nutrient interaction in obesity: Trans fatty acid intake and genetic risk score interaction in a multiethnic sample of children. *Experimental Biology 2013.*
65. Bohan Brown MM, Hernandez FI, Kell KP, López-Alarcon M, **Fernández JR.** Discordance in Tanner Stage Measures is Associated with Metabolic Disturbances in Girls. The Obesity Society Annual Meeting 2012.
66. Kell KP, Judd SE, Shikany JM, **Fernández JR.** 2013 "Associations Between Socioeconomic Status and Dietary Patterns in the REGARDS Study Population". Presented at the Experimental Biology Conference, American Society of Nutrition subcategory.
67. Pearson KE, **Fernández JR.** Glycemic Load - A Predictor of Insulin-Related Outcomes in African- and Hispanic- American Children. The Obesity Society Annual Meeting, Atlanta, GA, November 2013.
68. Bohan Brown MM, **Fernández JR.** Pediatric Insulin and Glucose Concentrations Respond to the Interaction Trans Fat and Carbohydrate Consumption with Amerindian Genetic Background. The Obesity Society Annual Meeting, Atlanta, GA, November 2013.

INVITED PRESENTATIONS AND LECTURES:

- 2001 Using Genetic Admixture Estimates in Mapping Obesity-related Genes. Invited presentation at the Mapping by Admixture Linkage Disequilibrium (MALD) meeting at the National Institute of Health, Bethesda, Maryland.
- 2002 Using Genetic Admixture to Understand the Ethnicity-genotype-obesity Connections. Invited oral presentation at a Genetic and Bioinformatic Symposia at Nutrition Week in San Diego, California.
- 2002 Exploring the Gene-obesity Interactions in Admixed Populations. Invited oral presentation at the IV Nestle Nutrition Conference "Loss of Homeostasis in Body Weight Regulation: A Population Perspective" Mexico City, Mexico.

- 2003 The Role of Genetic Admixture in Racial/Ethnic Differences in Obesity. Invited oral symposium at NAASO, 2003, Fort Lauderdale, FL.
- 2003 Are Racial/Ethnic Disparities in Obesity and Diabetes-Related Traits a Consequence of Genes? Invited oral presentation at the Conference "The Link between Obesity and Diabetes" at the University of Georgia-Athens.
- 2004 The Role of Genetic Admixture in Racial Disparities in Obesity and its Comorbidities. Invited seminar series lecture at Morehouse School of Medicine, Atlanta, GA.
- 2004 Determinant of Health Disparities: The Meaning of RACE. Keynote lecture at the Annual Educational Meeting of Genetic Counselors Society, Washington, D.C.
- 2004 Using Genetic Admixture to Explore Racial/Ethnic Differences in Complex Traits. Oral presentation at the UAB Department of Rheumatology.
- 2004 The Biogenetics of Obesity. Invited lecture presented at the 2nd Annual Science and Society Research Conference "Confronting Obesity: Science, Health and Society" at the University of California, Berkeley.
- 2004 Genetic Admixture is Associated with Visceral Adipose Tissue in Puerto Rican Women. Invited oral presentation at RCMAR/NIA 2004 Annual Meeting in Charleston, SC.
- 2004 Applications of Genetic Admixture Models to Diabetes-Related Traits. Invited oral presentation at the Instituto Nacional de Salud, Mexico City, Mexico.
- 2005 Genetics of Complex Diseases: What are We Missing? Invited keynote address at the CIGB 2nd International Workshop on Genomics Research, Varadero, Cuba.
- 2005 Genetic Admixture Methodology and its Application to Disease Risk. Invited symposium at the CIGB 2nd International Workshop on Genomics Research, Varadero, Cuba.
- 2005 Obesity and Cancer: The Role of Genetic Admixture. Invited lecture at the UAB Annual Center for Cancer Retreat, Birmingham, AL.
- 2005 Importancia de la Evaluación del Perfil Genético Ancestral en el Estudio de la Obesidad (Importance of Evaluating Genetic Background in the Study of Obesity). Invited lecture at Nutrition International Congress, Monterrey, Mexico.
- 2005 The Use of Genetic Admixture in the Study of Obesity and Diabetes. Invited seminar at Hospital Clínico, Barcelona, Spain.
- 2005 Genetics of Racial Differences in Obesity. Invited oral presentation at the First UAB Minority Research Day, Birmingham, AL.
- 2006 New York Obesity Research Center, Columbia University, March, 2006.
- 2006 UAB MHRC Annual Conference: Eliminating Health Disparities: Obesity & Diabetes - From Discovery to Delivery, March, 2006.
- 2006 The Nature/Nurture Dilemma of Obesity in the United States, Lilliam Fountain Smith Conference in Nutrition, Fort Collins, Colorado, June 2006.
- 2006 UCP en Oxidación de Grasas y Resistencia a la Insulina (The Role of UCP in Fat Oxidation and Insulin Resistance) (2006). 4th International Congress in Obesity and Nutrition, Monterrey, Mexico, July 2006.
- 2006 Statistical and Methodological Considerations for the Study of Gene Interactions in Obesity. Mexican National Institute for Social Security Annual Meeting. Oaxtepec, Mexico. September 2006.
- 2007 Genetic Differences on Energy Balance: Does Nature overcome Nurture? The Ingestive Behavior Research Center Symposium on "Eating and Body Weight over the Lifespan: Childhood and Adolescence", Purdue University, Indiana, US, April 2007.
- 2007 Clinical Applications of Genetic Admixture to Human Reproductive Biology. Annual Conference for the Mexican Association for Reproductive Medicine, Puerto Vallarta, Mexico, July 2007

- 2007 Oral Presentation at the Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Center Partnership's Summer Institute Conference entitled Beyond Race: The Emerging Role of Genetic Admixture in Eliminating Health Disparities. Atlanta, GA, August, 2007
- 2007 Health Disparities in Obesity: Can Genetics Bridge the Gap? Symposium presented at The Obesity Society Annual Meeting, New Orleans, Louisiana, USA 2007
- 2007 The role of ancestral genetics in insulin production among children of diverse ethnic groups. Latin American Diabetes Association Congress, Habana, Cuba, November 2007
- 2008 The role of Genetic Admixture in Understanding Racial Disparities. FASEB Meeting, San Diego, CA
- 2008 Contributions of Genetic Admixture to Childhood Obesity. American Diabetes Association Meeting for the Development of the Consensus Statement on Childhood Obesity. Los Angeles, CA
- 2008 Genetic Admixture in Childhood Obesity, Congress in Childhood Obesity, University of Southern California, CA
- 2008 The etiology of pediatric obesity. 6th International Congress in Obesity and Nutrition, Cancun, Mexico
- 2008 Physical Activity: Are we measuring it right? 6th International Congress in Obesity and Nutrition, Cancun, Mexico
- 2008 Uncovering the nature vs nurture enigma in childhood obesity. Florida International University, Miami, FL
- 2008 Is there a critical period of development to prevent pediatric obesity? A developmental perspective on the nature of biological susceptibility. Southern Obesity Summit, Birmingham, AL
- 2009 Is it Genetics or is it not: The Role of Genetics in Childhood Obesity. Alabama Dietetic Association Annual Meeting, Birmingham, AL
- 2009 New Findings in the Etiology of Racial Disparities in Pediatric Metabolic Outcomes. Monell Chemical Senses Center, Philadelphia, Pennsylvania
- 2009 Searching for the Skinny Me: Translating Obesity Research Into Everyday Life. Integration of Sciences and Education to the Clinic: Healthy Population Forum, University of Puerto Rico Medical School, Rio Piedras, PR
- 2009 Environmental and Genetic Factors in Metabolic Outcomes. Invited Presentation at Hospital Clinico, Barcelona, Spain
- 2009 Applications of Translational Research for the Identification of New Obesity Genes. 7th International Congress in Obesity and Nutrition, Monterrey, Mexico
- 2009 Yes we Can! Strategies to Overcome Childhood Obesity. 7th International Congress in Obesity and Nutrition, Monterrey, Mexico
- 2009 Uncovering the Etiology of Childhood Obesity. Invited Presentation at Ponce Medical School, Ponce, PR
- 2009 The Importance of Ancestral Genetic Background in Obesity Therapeutics. FASEB Summer Conference, Snowmass, CO
- 2009 Bad Genes or Genes Behaving Badly. Invited Presentation at the American Dietetic Association Annual Meeting, Denver, CO.
- 2010 Redefining obesity in Hispanic children and adolescents: physiology, genes and environment. Invited Presentation at the VI International Congress "United for Health", Ciudad Victoria, Mexico.
- 2010 Strategies to Overcome Childhood Obesity. Invited Presentation at the VI International Congress "United for Health", Ciudad Victoria, Mexico.
- 2010 Hispanic/Latinos in the United States: Are They All the Same? Invited Symposium presented at The Obesity Society Annual Meeting, San Diego, USA

- 2011 Is it Genetics or is it not? Role of Genetics in childhood Obesity. Invited Presentation at the Alabama Dietetic Association, Birmingham, AL
- 2011 Should we have a one size-fits all approach in obesity prevention?. Invited Presentation at the Biochemistry Symposiums at FASEB, Washington, DC.
- 2011 Biodiversity in Hispanics: facing the one-size fits all approach. Invited Presentation to the Diversity in Medicine Series at the University of Alabama at Birmingham.
- 2011 Genetic Variability, Environment and Cancer. Invited talk at the Mexican National Institute for Social Security Annual Meeting Symposium "Obesity and Cancer: Cause and Consequences", Oaxtepec, Mexico.
- 2012 Genetic variability in Body Composition. Invited presentation at the Mexican National Institute for Social Security Body Composition Workshop, Mexico City, Mexico.
- 2012 Racial/ethnic differences in the genetics of obesity. Invited talk at the Fifth AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, San Diego, CA.
- 2013 Genetic Risk and Pediatric Obesity: A Hopeful Walk on an Unclear Journey. Invited talk presented at the Biology Seminar Series of Morehouse College, Atlanta, GA.
- 2013 Genetic Etiology of Metabolic Syndrome. Invited talk presented to the Venezuelan Obesity Scientific Society, Maracaibo, Venezuela.
- 2013 Genetics of Pediatric Obesity. Invited talk presented during the VII Venezuelan Obesity Congress, Maracaibo, Venezuela.
- 2013 Obesity: Measurements and Prevention. Invited talk presented during the VII Venezuelan Obesity Congress, Maracaibo, Venezuela.
- 2013 Genetic Predisposition to Obesity: What Does it Mean to You? Invited presentation to the Public Health and Policy in Obesity Symposium at the 21st Meeting of the Society for the Study of Ingestive Behaviors, New Orleans, LA
- 2014 Interaction between Genetic Score and Diet in Obesity and Diabetes. Invited oral presentation at XXIII Foro Nacional de Investigación en Salud, Oaxtepec, Mexico
- 2014 Obesity: What genes got to do with it? Invited oral presentation at the Puerto Rican Society of Endocrinology and Diabetes Taming the Obesity Monster meeting , San Juan, Puerto Rico
- 2014 Interactions between Diet and Genetics of Obesity. Invited oral presentation at the 30th Anniversary Celebration Conference of the Nutrition Unit of the Mexican National Institute for Social Security, Mexico City, Mexico.