

CURRICULUM VITAE

YANN C. KLIMENTIDIS, Ph.D.

Assistant Professor
Department of Epidemiology and Biostatistics
Mel and Enid Zuckerman College of Public Health
University of Arizona
1295 N. Martin Ave
Tucson, AZ 85724
yann@email.arizona.edu
520-621-0147
<https://klimentidis.lab.arizona.edu/>
Scopus Author ID: 15081086900

CHRONOLOGY OF EDUCATION AND TRAINING

1998	B.A. Biology, Texas A&M University
2002	M.S. Anthropology, University of New Mexico
2008	Ph.D. Anthropology, University of New Mexico Dissertation: Using genetic admixture to examine social and phenotypic aspects of ethnicity among New Mexican Hispanics and Native Americans Advisors: Geoffrey Miller & James Boone
2009 - 2012	Postdoctoral Fellowship, Statistical Genetics, Dept. of Biostatistics, University of Alabama at Birmingham Mentors: David Allison & Jose Fernandez
2012 - 2014	Arizona Clinical & Translational Research Graduate Certificate Program

Major fields: genetic epidemiology, cardiometabolic disease, health disparities

CHRONOLOGY OF EMPLOYMENT (since PhD)

Academic

2009 – 2011	Postdoctoral Fellowship , Section on Statistical Genetics; University of Alabama at Birmingham, Birmingham, AL
2012 – 2012	Instructor , Office of Energetics, School of Public Health; University of Alabama at Birmingham, Birmingham, AL
2012 – 2015	Assistant Professor (NTE) , Division of Epidemiology and Biostatistics, University of Arizona, Tucson, AZ
2015 – present	Assistant Professor (TE) , Division of Epidemiology and Biostatistics, University of Arizona, Tucson, AZ
2012 – present	Assistant Professor , BIO5 Institute, University of Arizona, Tucson, AZ
2013 – present	Assistant Professor , Graduate Interdisciplinary Program in Genetics, University of Arizona, Tucson, AZ
2016– present	Member , Division of Population Genetics, Center for Applied Genetics and Genomic Medicine, University of Arizona, Tucson, AZ

HONORS AND AWARDS

- 1997 Texas A&M University Dean's Award
- 2010 Faculty of 1000 library of the top 2% of published articles in biology and medicine:
Klimentidis YC, Beasley TM, Lin HY, Murati G, Glass GE, Guyton M, Newton W, Jorgensen M, Heymsfield SB, Kemnitz J, Fairbanks L, & Allison DB (2010) Canaries in the Coal Mine: A Cross-Species Analysis of the Plurality of Obesity Epidemics. *Proceedings of the Royal Society, B*. 278(1712):1626-32.
- 2010 Second Place - UAB School of Public Health Research Day, Poster presentation.
- 2012 First Place - UAB School of Public Health Research Day, Poster presentation (Faculty category).
- 2012 Second Place – Alabama Public Health Association, Poster presentation,

SERVICE/OUTREACH (as Assistant Professor, ** indicates activities performed while in career-track position)

National/International Service

Journal Referee for: PLoS Genetics; Diabetes; Annals of Epidemiology; Diabetologia; Genome Medicine; Diabetology & Metabolic Syndrome; Human Genetics; Ethnicity and Disease; American Journal of Human Biology; American Anthropologist; Human Nature; PNAS; Obesity; JAMA; American Journal of Clinical Nutrition; Current Diabetes Reviews; Annals of Human Genetics; Human Heredity; Molecular Carcinogenesis; PLoS One; Cell Metabolism; Circulation: Cardiovascular Genetics; Cell Metabolism; Journal of Sport and Health Science; Genes; PLoS Biology

Scientific Advisor/Consulting (2016, 2018): Lipedema Foundation Scientific Retreats. I served as a panelist/advisor for scientific retreats of the Lipedema Foundation. I was asked to comment on the work of current grantees, propose relevant research questions/applications, as well as share potential collaborative opportunities.

Grant Review: (2017) Lipedema Foundation – grant application review
(2018-2019) – NIH KNOD Study Section reviewer

American Society of Human Genetics (2018): Reviewer/Judge of oral presentations for Epstein Trainee Research Award. I judged/reviewed several oral presentations, then attended a meeting to review scores and decide on award winners.

Media Interviews:

** Regarding publication on physical activity and genetic risk for type 2 diabetes:
Endocrine Today, 9/29/14
MedicalResearch.com, 9/26/14

** Regarding publication on resistance exercise intervention and genetic risk for obesity:

Daily Mail, 4/30/15
Live Science, 4/29/15
Shape Magazine, 3/23/16

Regarding publication on triglyceride genes and type-2 diabetes risk:

Endocrine Today, 6/1/15
MedicalResearch.com, 5/26/15
104.1 KQTH live radio interview, 6/10/15
Tucson Lifestyle Magazine, 10/1/15

Regarding publication on FTO and time spent sitting:

Reuters Health (New York), 10/20/2015

Regarding publication on West-African ancestry and central obesity:

Health Day (New York), 5/25/16
MedicalResearch.com, 6/1/16

Regarding Lipedema Research:

The Daily Wildcat, 2/15/18 (Interview took place in late 2017)

Regarding 23andMe study on genetics of weight loss diets:

Genome Magazine, 1/26/18

Regarding direct-to-consumer genetic tests:

Brit + Co, 11/7/18
<https://www.brit.co/dna-test-guide/>

Departmental Committees

** UA Department of Epidemiology and Biostatistics - Undergraduate Epidemiology Educational Track Workgroup; Spring, 2014

** UA Department of Epidemiology and Biostatistics - Epidemiology MPH Admissions Committee; Spring, 2015

UA Department of Epidemiology and Biostatistics – Member of committee reviewing faculty APR (Annual Progress Report); Spring 2017.

UA Department of Epidemiology and Biostatistics - Epidemiology Program Committee member to improve our website; Fall, 2018

College Committees

UA MEZCOPH College Environment Committee; member of Steering Committee; Lead on a sub-committee; 2016 - current.

UA MEZCOPH Research Advisory Committee; member of committee; Fall 2016 – Spring 2018

UA MEZCOPH Public Health Poster Forum – Served as a Judge; Spring, 2018

University Committees

UAHS Center for Applied Genetic and Genomic Medicine Executive Committee; 2015-current

UAHS Hiring Committee Member for the Director of the Center for Disparities in Diabetes, Obesity & Metabolism; Fall 2015 - Spring 2016

UA Department of Nutritional Sciences Hiring Committee; member of committee charged with soliciting applications, selecting candidates, interviewing candidates for a faculty position; Fall 2016 - Spring 2017

UA Center for Disparities in Diabetes, Obesity, and Metabolism & Endocrine Division - Member of committee for Grand Rounds seminar series - responsible for selecting, inviting, and help in hosting and introducing speakers; Summer 2016- Spring 2018

UA Arizona Biological and Biomedical Sciences Program (ABBS) Review Committee for Student Admissions; Fall 2017

UA Graduate Interdisciplinary Program in Genetics, Member of Executive Committee; Summer 2017 – current.

JOURNAL PUBLICATIONS (*indicates work done as part of PhD)

1. Hadsell DL, Alexeenko T, **Klimentidis YC**, Torres D, Lee AV (2001) Inability of overexpressed des(1-3) human insulin-like growth factor I (IGF-I) to inhibit forced mammary gland involution is associated with decreased expression of IGF signaling molecules. *Endocrinology* 142: 1479-88.
2. Hadsell DL, Bonnette S, George J, Torres D, **Klimentidis YC**, Gao S, Haney PM, Summy-Long J, Soloff MS, Parlow AF, Sirito M, Sawadogo M (2003) Diminished milk synthesis in upstream stimulatory factor 2 null mice is associated with decreased circulating oxytocin and decreased mammary gland expression of eukaryotic initiation factors 4E and 4G. *Molecular Endocrinology* 17(11):2251-67.
3. ***Klimentidis YC**, Miller G, Shriver MD (2009) Genetic admixture, self-reported ethnicity, self-estimated admixture, and skin pigmentation among Hispanics and Native Americans. *American Journal of Physical Anthropology*, 138(4): 375-83.
4. ***Klimentidis YC**, Shriver MD (2009) Estimating genetic admixture proportions from faces. *PLoS One*, 4(2): e4460.
5. ***Klimentidis YC**, Miller G, Shriver MD (2009) The relationship between European genetic admixture and body composition among Hispanics and Native Americans. *American Journal of Human Biology*, 21(3):377-382.

6. Valentine LE, Loffredo JT, Bean AT, León EJ, MacNair CE, Beal DR, Piaskowski SM, **Klimentidis YC**, Lank SM, Wiseman RW, Weinfurter JT, May GE, Rakasz EG, Wilson NA, Friedrich TC, O'Connor DH, Allison DB, and Watkins DI (2009) Infection with "escaped" virus variants impairs control of SIVmac239 replication in Mamu-B*08+ macaques. *Journal of Virology*, 83(22):11514-27.
7. Martins MA, Wilson NA, Reed JS, Ahn CD, **Klimentidis YC**, Allison DB, and Watkins DI (2010) T-cell correlates of vaccine efficacy after a heterologous SIV challenge. *Journal of Virology*, 84(9):4352-65.
8. Friedrich TC, Piaskowski SM, León EJ, Furlott JR, Maness NJ, Weisgrau KL, Mac Nair CE, Weiler AM, Loffredo JT, Reynolds MR, Williams KY, **Klimentidis YC**, Klimentidis YC, Nancy A. Wilson, David B. Allison, and Eva G. Rakasz. (2010) High viremia is associated with high levels of *in vivo* MHC-I downregulation in rhesus macaques infected with SIVmac239. *Journal of Virology*, 84(10):5443-7.
9. De Luca M, **Klimentidis YC**, Krista Casazza, Michelle Moses Chambers, Ruth Cho, Susan T. Harbison, Patricia Jumbo-Lucioni, Shaoyan Zhang, Jeff Leips, and Jose R. Fernandez. (2010) A conserved role for syndecan family members in the regulation of whole-body energy metabolism. *PLoS One* 5(6): e11286
10. **Klimentidis YC**, Jasmin Divers, Krista Casazza, David B. Allison, Jose R. Fernandez (2011) Ancestry-informative markers on chromosomes 2, 8 and 15 are associated with insulin-related traits in a racially diverse sample of children. *Human Genomics*. Jan 5(2):79-89.
11. **Klimentidis YC**, Beasley TM, Lin HY, Murati G, Glass GE, Guyton M, Newton W, Jorgensen M, Heymsfield SB, Kemnitz J, Fairbanks L, & Allison DB (2011) Canaries in the Coal Mine: A Cross-Species Analysis of the Plurality of Obesity Epidemics. *Proceedings of the Royal Society, B*. 278(1712):1626-32
12. **Klimentidis YC**, Abrams M, Wang J, Fernandez JR, Allison DB (2011) Natural selection at genomic regions associated with obesity and type-2 diabetes: East Asians and sub-Saharan Africans exhibit high levels of differentiation at type-2 diabetes regions. *Human Genetics*. 129: 407-418.
13. Makowsky R, Pajewski N, **Klimentidis YC**, Vasquez AI, Duarte C, Allison DB, de los Campos G (2011) Beyond missing heritability: Prediction of complex traits. *PLoS Genetics* 7(4): e1002051.
14. **Klimentidis YC**, Aissani B, Shriver MD, Allison DB, Shrestha S (2011). Natural Selection among Eurasians at genomic regions associated with HIV-1 control. *BMC Evolutionary Biology*. 11: 173.
15. Duarte CW, **Klimentidis YC**, Harris J, Cardel M, Fernandez JR (2011) A Hybrid Bayesian Network/Structural Equation (BN/SEM) Modeling Approach for Detecting Physiological Networks for Obesity-related Genetic Variants. *Proceedings. IEEE International Conference on Bioinformatics and Biomedicine*. 2011:696-702.

16. **Klimentidis YC**, Chen GB, Lopez-Alarcon M, Harris J, Duarte C, Fernandez JR (2011). Associations of Obesity Genes with Obesity-related Outcomes in Multiethnic Children. *Archives of Medical Research*. 42(6): 509-14.
17. Gomez-Rubio P, **Klimentidis YC**, Cantu-Soto E, Meza-Montenegro MM, Billheimer D, Lu Z, Chen Z, Klimecki W (2012). Indigenous American ancestry is associated with arsenic methylation efficiency in an admixed population of northwest Mexico. *Journal of Toxicology and Environmental Health A*. 75(1): 36-49
18. Fernandez JR, **Klimentidis YC**, Dulin-Keita A, Casazza K (2012). Genetic influences in childhood obesity: recent progress and recommendations for experimental designs. *International Journal of Obesity*. 36(4):479-84.
19. Quillen EE, Bauchet M, Bigham AW, Delgado-Burbano ME, Faust F, **Klimentidis YC**, Mao X, Stoneking M, and Shriver MD (2012). OPRM1 and EGFR contribute to skin pigmentation differences between Indigenous Americans and Europeans. *Human Genetics*. 131(7):1073-80.
20. **Klimentidis YC**, Dulin-Keita A, Casazza K, Willig A, Allison DB, Fernandez JR (2012) Genetic admixture, social-behavioral factors, and body composition are associated with blood pressure differently by racial-ethnic group among children. *Journal of Human Hypertension*. 26(2):98-10
21. de los Campos G, **Klimentidis YC**, Vazquez AI, Allison DB (2012). Prediction of expected years of life using whole-genome markers. *PLoS One*. 7(7):e40964.
22. Vazquez AI, de los Campos G, **Klimentidis YC**, Rosa GMJ, Gianola D, Yi N, Allison DB (2012). A Comprehensive Genetic Approach for Improving Prediction of Skin Cancer Risk in Humans. *Genetics*. 192(4):1493-502.
23. Malek AJ, **Klimentidis YC**, Kell KP, Fernandez JR (2013). Associations of the lactase persistence allele and lactose intake with body composition among multiethnic children. *Genes and Nutrition*. 8: 487-94.
24. Lemas DJ, **Klimentidis YC**, Weiner HH, O'Brien DM, Hopkins S, Stanhope KL, Havel PJ, Allison DB, Fernandez JR, Tiwari HK, Boyer BB (2013). Obesity polymorphisms identified in genome-wide association studies interact with n-3 polyunsaturated fatty acid intake and modify the genetic association with adiposity phenotypes in Yup'ik people. *Genes and Nutrition*. 8: 495-505.
25. Aslibekyan S, Vaughan LK, Wiener HW, Lemas DJ, **Klimentidis YC**, Havel PJ, Stanhope KL, O'Brien DM, Hopkins SE, Boyer BB, Tiwari HK (2013). Evidence for novel genetic loci associated with metabolic traits in Yup'ik people. *American Journal of Human Biology*. 25: 673-80.
26. **Klimentidis YC**, Vazquez AI, de los Campos G, Allison DB, Dransfield M, Thannickal VJ (2013). Heritability of pulmonary function estimated from pedigree and whole-genome markers. *Frontiers in Genetics*. 4:174.

27. de los Campos G, Vazquez AI, Fernando RL, **Klimentidis YC**, Sorensen D (2013). Prediction of Complex Human Traits Using the Genomic Best Linear Unbiased Predictor. *PLoS Genetics*. 9 (7), e1003608.
28. **Klimentidis YC**, Lemas DJ, Wiener HH, O'Brien DM, Havel PJ, Stanhope KL, Hopkins SE, Tiwari HK, Boyer BB (2014). *CDKAL1* and *HHEX* are associated with type-2 diabetes-related traits among Yup'ik people. *Journal of Diabetes*. 6 (3): 251-259.
29. Chen GB, Liu, N, **Klimentidis YC**, Zhu Z, Zhi D, Lou, XY (2014). A unified GMDR method for detecting gene-gene interactions in family and unrelated samples with application to nicotine dependence. *Human Genetics*. 133(2):139-50.
30. **Klimentidis YC**, Wineinger NE, Vazquez AI, de los Campos G (2014). Multiple metabolic genetic risk scores and type 2 diabetes risk in three racial/ethnic groups. *Journal of Clinical Endocrinology and Metabolism*. 99 (9):E1814-E1818.
31. **Klimentidis YC**, Zhou J, Wineinger NE (2014). Identification of allelic heterogeneity at type-2 diabetes loci and impact on prediction. *PLoS One*. 9(11):e113072.
32. **Klimentidis YC**, Chen Z, Arora A, Hsu CH (2014). Association of physical activity with lower type 2 diabetes incidence is weaker among individuals at high genetic risk. *Diabetologia*. 57(12):2530-2534.
33. Lebrón-Aldea D, Dhurandhar EJ, Pérez-Rodríguez P, **Klimentidis YC**, Tiwari HK, Vazquez AI (2015) Integrated genomic and BMI analysis for type-2 diabetes risk assessment. *Frontiers in Genetics*. 6:75.
34. **Klimentidis YC**, Bea JW, Lohman T, Hsieh PS, Goings S, Chen Z. (2015) High genetic-risk individuals benefit less from resistance exercise intervention. *International Journal of Obesity*. 39(9):1371-5.
35. Hibler EA, **Klimentidis YC**, Jurutka PW, Kohler LN, Lance P, Roe DJ, Thompson PA, Jacobs ET (2015) *CYP24A1* and *CYP27B1* Polymorphisms, Concentrations of Vitamin D Metabolites, and Odds of Colorectal Adenoma Recurrence. *Nutrition and Cancer*. 67(7):1131-41.
36. **Klimentidis YC**, Chougule A, Arora A, Frazier-Wood AC, Hsu CC. (2015) Triglyceride-increasing alleles associated with protection against type-2 diabetes. *PLoS Genetics*. 11(5):e1005204
37. Vazquez AI, **Klimentidis YC**, Dhurandhar EJ, Veturi YC, Pérez-Rodríguez P. (2015) Assessment of Whole-Genome Regression for Type II Diabetes. *PLoS One*. 10(4):e0123818.
38. Duarte CW, **Klimentidis YC**, Harris JJ, Cardel M, Fernández JR (2015) Discovery of phenotypic networks from genotypic association studies with application to obesity. *International Journal of Data Mining and Bioinformatics*. 12(2): 129-143.
39. **Klimentidis YC**, Arora A, Chougule A, Zhou J, Raichlen D. (2016) FTO association and interaction with time spent sitting. *International Journal of Obesity*. 40(3):411-6.

40. **Klimentidis YC**, Bea JW, Thompson P, Klimecki WT, Hu C, Wu G, Nicholas S, Ryckman KK, CHARGE Consortium Musculoskeletal Working Group, Chen Z (2016) Genetic Variant in *ACVR2B* Is Associated with Lean Mass. *Medicine & Science in Sports & Exercise*. 48(7): 1270-1275.
41. Reynolds RJ, Vazquez AI, Srinivasasainagendra V, **Klimentidis YC**, Bridges SL Jr, Allison DB, Singh JA (2016) Serum urate gene associations with incident gout, measured in the Framingham Heart Study, are modified by renal disease and not by body mass index. *Rheumatology International*. 36(2): 263-270.
42. **Klimentidis YC**, Arora A (2016) Interaction of Insulin Resistance and Related Genetic Variants with Triglyceride-Associated Genetic Variants. *Circulation: Cardiovascular Genetics*. 9(2): 154-161.
43. **Klimentidis YC**, Arora A, Zhou J, Kittles R, Allison DB (2016). The genetic contribution of West-African ancestry to protection against central obesity in African-American men but not women: results from the ARIC and MESA studies. *Frontiers in Genetics*. fgene.2016.00089.
44. Lemas DJ, **Klimentidis YC**, Aslibekyan S, Wiener HW, O'Brien DM, Hopkins SE, Stanhope KL, Havel PJ, Allison DB, Fernandez JR, Tiwari HK, Boyer BB (2016). Polymorphisms in stearoyl CoA desaturase and sterol regulatory element binding protein interact with N-3 polyunsaturated fatty acid intake to modify associations with anthropometric variables and metabolic phenotypes in Yup'ik people. *Molecular Nutrition and Food Research*. 60(12):2642-2653.
45. Chen Z, **Klimentidis YC**, Bea JW, Ernst KC, Hu C, Jackson R, Thomson CA (2017). Body Mass Index, Waist Circumference and Mortality in a Large Multiethnic Postmenopausal Cohort - Results from the Women's Health Initiative. *Journal of the American Geriatrics Society*. 65(9): 1907-1915.
46. Bea J, Wassertheil-Smoller S, Wertheim B, **Klimentidis YC**, Chen Z, Zaslavsky O, Manini T, Womack C, Kroenke C, LaCroix A, Thomson C (2018) Associations between ACE-inhibitors, angiotensin receptor blockers and lean body mass in community dwelling older women. *Journal of Aging Research*. 8491092
47. **Klimentidis YC**, Raichlen DA, Bea J, Garcia DO, Wineinger NE, Mandarino LJ, Alexander GE, Chen Z, Going SB (2018) Genome-wide association study of habitual physical activity in over 377,000 UK Biobank participants identifies multiple variants including *CADM2* and *APOE*. *International Journal of Obesity*. 42: 1161–1176.
48. Raichlen DA, **Klimentidis YC**, Hsu CH, Alexander GE (2018) Fractal complexity of daily physical activity patterns differs with age over the lifespan and predicts mortality in older adults. *Journal of Gerontology A: Medical Sciences*. In Press.
49. Bhagwandin C, Ashbeck EL, Whalen M, Bandola-Simon J, Roche PA, Szajman A, Truong SM, Wertheim BC, **Klimentidis YC**, Ishido S, Renquist BJ, Lybarger L (2018) The E3 ubiquitin ligase *MARCH1* regulates glucose-tolerance and lipid storage in a sex-specific manner. *PLoS One*. 13(10):e0204898.

50. **Klimentidis YC**, Raichlen DA, Bea J, Garcia DO, Wineinger NE, Mandarino LJ, Alexander GE, Chen Z, Going SB (2018) In response to: 'Information bias in measures of self-reported physical activity'. *International Journal of Obesity*. 42(12):2064-2065.
51. Cardel MI, Lemas DJ, Lee AM, Miller DR, Huo T, **Klimentidis YC**, Fernandez JR (2019) Taq1a polymorphism (rs1800497) is associated with obesity-related outcomes and dietary intake in a multi-ethnic sample of children. *Pediatric Obesity* 14(2):e12470.
52. Choi KW, Chen CY, Stein MB, **Klimentidis YC**, Wang MJ, Koenen KC, Smoller JW, Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium (2019). Testing Causal Bidirectional Influences between Physical Activity and Depression using Mendelian Randomization. *JAMA Psychiatry*. In Press.

SCHOLARLY PRESENTATIONS (as Assistant Professor, ** indicates activities performed while in career-track position)

Invited Oral Presentations

- ** Genetics of Type-2 Diabetes Susceptibility – UA College of Public Health Epidemiology Seminar; April, 2013
- ** Towards an Improved Prediction of Genetic Risk for Type-2 Diabetes. NIDDK - Phoenix Branch, Phoenix, AZ; May, 2013
- ** Genetic Prediction of Type-2 Diabetes: Present and Future. UA Graduate Interdisciplinary Program in Genetics; December, 2013
- ** Challenges in Analyzing Genetics of Complex Traits. UA Biostatistics Seminar; February, 2014
- ** Type-2 Diabetes: When Genes Meet Lifestyle. UA Nutrition Seminar; September, 2014
- ** Type-2 Diabetes: When Genes Meet Lifestyle. UA Genetics and Genomics Grand Rounds; May, 2015
- Controlling for population genetic structure in association studies, Mini-Workshop on Genetic Ancestry, Admixture Estimation and Mapping in African American and Latino Populations, Inaugural Symposium for Applied Genetics and Genomic Medicine; April, 2016
- Cardiometabolic disease and cancer: a genetic perspective - UA Cancer Center Cancer Prevention Control Seminar; November, 2016
- The genetic basis of physical activity behavior – 13th Annual Building Healthy Lifestyles Conference; Arizona State University; Tempe, Arizona; February, 2018
- Genetic risk factors for lipedema – Lipedema Foundation Scientific Retreat; Washington DC; December, 2018

Peer-reviewed abstracts and presentations

** Prediction of human height with GWAS-identified SNPs – insights into genetic architecture. Poster presented at American Society of Human Genetics annual meeting; November, 2012.

** Genetic variants in *CAPN3* and *ACVR2B* are associated with lean body mass in postmenopausal women. Poster presented at the American Society of Bone Mineral Research annual meeting; October, 2013.

** High-dimensional genetic prediction of type-2 diabetes susceptibility. Poster presented at American Society of Human Genetics annual meeting; October, 2013.

** Multiple Metabolic-Related Genetic Risk Scores and Type-2 Diabetes Risk in Three Ethnic/Racial Groups. YC. Klimentidis, Nathan E. Wineinger, Ana I. Vazquez, Gustavo de los Campos. Poster presented at the American Diabetes Association; June, 2014.

** Association of physical activity with lower type-2 diabetes incidence is weaker in those with high genetic risk. YC Klimentidis, Z. Chen, A. Arora, C. Hsu Poster presented at the American Society of Human Genetics annual meeting; October, 2014.

West-African genetic ancestry is associated with a more favorable cardiometabolic profile among men: a phenomenon partly explained by a variant near *COL3A1* and *DIRC1*. Yann C. Klimentidis, David B. Allison, Amit Arora, Rick Kittles, Jin Zhou. Poster presented at the American Diabetes Association meeting; June, 2016.

Genetic factors underlying the lipedema phenotype – **Oral Presentation** at the Fat Disorders Research Society Conference; Dallas, TX; April, 2018

Genome-wide association study of the lipedema phenotype in the UK Biobank. Yann C. Klimentidis, Karen L. Herbst, Zhao Chen. Poster presented at the American Society of Human Genetics meeting, San Diego, CA; Oct., 2018.

Genetic Basis of Lipedema and Physiological Insight – **Oral Presentation** at the Fat Disorders Research Society Conference; Baltimore, MD; April, 2019

AWARDED GRANTS AND CONTRACTS (as tenure-eligible Assistant Professor)

Current

NIH R01 HL136528 **Klimentidis (PI)** **04/01/18 – 03/30/21**

Genetics at the Interface of Lipid and Glycemic Traits

We aim to identify genetic variants that associate in opposite directions with lipid and glycemic traits, to identify genes/pathways upregulated in the context of insulin resistance, and to identify genetic modifiers of the increased type-2 diabetes risk among statin users.

Role: PI 50% effort Total funding: \$1.06 million

Lipedema Foundation #8 **Klimentidis (PI)** **06/01/17 – 05/31/19**

Genetic Risk Factors and Corresponding Mechanisms Underlying Lipedema

Using genetic data from multiple sources, including the UK Biobank, this project aims to identify genetic risk factors for lipedema and the corresponding physiological mechanisms.

Role: PI 30% effort Total funding: \$114,470

American Cancer Society

Institutional Cancer Research Grant,

#16-124-37

Garcia, David (PI)

12/01/18 - 11/30/19

Developing a culturally-sensitive nutrigenetic intervention to reduce liver cancer risk in Mexican-origin adults

This research will establish prevalence data of nonalcoholic fatty liver disease (NAFLD) and the *PNPLA3* risk allele frequency in Tucson, AZ; assess relationships between the *PNPLA3* genotype, liver fat, and dietary behaviors in Mexican-origin adults; and evaluate the knowledge, attitudes, and beliefs of NAFLD risk, including genetic risk, held by Mexican-origin men and women.

Role: Co-I Total funding: \$30,000

Completed

Arizona Alzheimer's Consortium

Klimentidis (PI)

07/01/16 – 06/31/17

The influence of physical activity, genetic susceptibility, and their interaction, on risk for Alzheimer's disease.

The objective of this project is to map the genetic markers and mechanisms through which physical activity protects against Alzheimer's disease.

Role: PI 3% effort Total funding: \$10,000

NIH K01 DK095032-01

Klimentidis (PI)

09/01/12 - 06/31/16

Whole-Genome Prediction of Type-2 Diabetes Susceptibility in Various Populations.

This is a career development award. The goal of the research component is to develop and test genomic prediction models for type-2 diabetes risk in different populations.

Role: PI 90% effort Total funding: \$440,000

LIST OF COLLABORATORS

Individuals with whom I have co-authored a publication or applied for/awarded a grant in the past 60 months (since mid-2014), and my graduate and postdoctoral advisors/mentors.

Gene Alexander, University of Arizona
David Allison, University of Alabama at Birmingham
Amit Arora, University of Arizona
Erin Ashbeck, University of Arizona
Stella Aslibekyan, University of Alabama at Birmingham
Joanna Bandola-Simon, National Cancer Institute, NIH
Jennifer Bea, University of Arizona
James Boone, University of New Mexico
Bert Boyer, University of Alaska at Fairbanks
Lou Bridges, University of Alabama at Birmingham
Michelle Cardel, University of Florida
O'neshia Olivia Carney, University of Florida
Chia-Yen Chen, Massachusetts General Hospital
Zhao Chen, University of Arizona
Akshay Chougule, University of Arizona
Gustavo de los Campos, Michigan State University
Dawn Coletta, University of Arizona
Emily Dhurandhar, University of Alabama at Birmingham
Christina Duarte, University of Alabama at Birmingham
Kacey Ernst, University of Arizona
Jose Fernandez, University of Alabama at Birmingham
Alexis Frazier-Wood, Baylor College of Medicine
David Garcia, University of Arizona
Scott Going, University of Arizona
Manuel Gonzalez-Garay, University of Arizona
Jennifer Hatcher, University of Arizona
Peter Havel, University of California at Davis
Karen Herbst, University of Arizona
Elizabeth Hibler, University of Arizona
Scarlett Hopkins, University of Alaska at Fairbanks
Pei-Shan Hsieh, University of Arizona
Paul Hsu, University of Arizona
Keith Hunley, University of New Mexico
Chencheng Hu, University of Arizona
Tianyao Huo, University of Florida
Satoshi Ishido, Hyogo College of Medicine
Rebecca Jackson, Ohio State University
Elizabeth Jacobs, University of Arizona
Peter Jurutka, University of Arizona
Rick Kittles, University of Arizona
Walter Klimecki, University of Arizona
Karestan C. Koenen, Harvard University

Lindsay Kohler, University of Arizona
Candyce Kroenke, Kaiser Permanente
Andrea LaCroix, UC San Diego
Peter Lance, University of Arizona
Dayanara Lebron-Aldea, University of Alabama at Birmingham
Alexandra M. Lee, University of Florida
Dominick Lemas, University of Florida
Tim Lohman, University of Arizona
Lonnie Lybarger, University of Arizona
Lawrence Mandarino, University of Arizona
Todd Manini, University of Florida
Darci Miller, University of Florida
Geoffrey Miller, University of New Mexico
Jane Mohler, University of Arizona
Kristin Morrill, University of Arizona
Skye Nicholas, University of Arizona
Diane O'Brien, University of Alaska at Fairbanks
Jose Ordovas, Tufts University
Jen Jung Pan, University of Arizona
Sairam Parthasarathy, University of Arizona
Paulino Perez-Rodriguez, University of Alabama at Birmingham
David Raichlen, University of Arizona
Benjamin J. Renquist, University of Arizona
Richard Reynolds, University of Alabama at Birmingham
Paul Roche, National Cancer Institute, NIH
Denise Roe, University of Arizona
Kelli Ryckman, University of Iowa
Mark Shriver, Penn State University
JA Singh, University of Alabama at Birmingham
Jordan Smoller, Harvard University
Vinodh Srinivasasainagendra, University of Alabama at Birmingham
Kimber Stanhope, University of California at San Francisco
Murray B. Stein, University of California, San Diego
Craig Stump, University of Arizona
Adam Szajman, University of Arizona
Cynthia Thompson, University of Arizona
Patricia Thompson, University of Arizona
Randy Thornhill, University of New Mexico
Hemant Tiwari, University of Alabama at Birmingham
Sarah Mai Truong, University of Arizona
Ana I Vazquez, Michigan State University
Yogasudha Veturi, University of Alabama at Birmingham
Min-Jung Wang, Harvard University
Sylvia Wassertheil-Smoller, Albert Einstein College of Medicine
Betsy C. Wertheim, University of Arizona
Michael Whalen, University of Arizona
Howard Wiener, University of Alabama at Birmingham
Nathan Wineinger, Scripps Research

Catherine Womack, University of Tennessee Health Science Center
Guanglin Wu, University of Arizona
Oleg Zaslavsky, University of Haifa
Degui Zhi, University of Alabama at Birmingham
Jin Zhou, University of Arizona

Sections 4 and 5 are true and accurate statements of my activities and accomplishments. I understand that misrepresentation in securing tenure and promotion may lead to dismissal or suspension under ABOR Policy 6-201 J.

A handwritten signature in black ink, appearing to read "Man Khan", with a small mark at the end.