

CURRICULUM VITAE

YANN C. KLIMENTIDIS, Ph.D.

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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: Drs. 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 – 2020	Assistant Professor (TE) , Department of Epidemiology and Biostatistics, University of Arizona, Tucson, AZ
2012 – 2020	Assistant Professor , BIO5 Institute, University of Arizona, Tucson, AZ
2013 – 2020	Assistant Professor , Graduate Interdisciplinary Program in Genetics, University of Arizona, Tucson, AZ
2020 – 2025	Associate Professor , Department of Epidemiology and Biostatistics, University of Arizona, Tucson, AZ
2020 – present	Associate Professor , BIO5 Institute, University of Arizona, Tucson, AZ
2020 – present	Associate Professor , Graduate Interdisciplinary Program in Genetics, University of Arizona, Tucson, AZ

2022 – present	Visiting Researcher , Department of Economics, Vrije Universiteit Amsterdam, Netherlands
2025 – present	Professor , Department of Epidemiology and Biostatistics, 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. <i>Proceedings of the Royal Society, B</i> . 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

National/International Service

Journal Referee for: Nature Genetics; PLoS Genetics; Diabetes; Diabetes Care; 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; Alzheimer's & Dementia; Medicine & Science in Sports & Exercise; etc

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:

July, 2017 - Lipedema Foundation – grant application reviewer
 February, 2019 - NIH KNOD Study Section reviewer
 October, 2019 - NIH KNOD Study Section reviewer
 January, 2020 - Lipedema Foundation – grant application reviewer
 June, 2020 - NIH KNOD Study Section reviewer
 November, 2020 – Medical Research Council (UK) grant application reviewer
 December, 2020 – NIH Special Emphasis Panel Study Section reviewer
 November, 2024 – NIH Director's Early Independence Award (DP5) reviewer
 June, 2025 – NIH GHD Study Section reviewer

American Society of Human Genetics (ASHG):

October 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.

October 2020: Participated as mentor at 2020 ASHG Career Paths in Genetics Networking Event at Annual ASHG Meeting.

March 2021: served as Judge for ASHG's 2021 DNA Day Essay Contest. Reviewed and judged 28 essays from High school students.

October 2022: ASHG Awards committee member – served as an Undergraduate Poster judge at annual meeting.

2022-current: ASHG Awards Committee member - serving as reviewer of ASHG annual award nominees.

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), 10/20/15

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/>

Regarding All of Us Research at the University of Arizona

KOLD Channel 13 - <https://www.kold.com/2022/02/21/ua-leading-efforts-address-health-disparities-faced-by-minorities/>, 2/21/22

Regarding MS student Ferris Ramadan's first author publication on using Mendelian Randomization to assess causal relationships between physical activity and body weight, shape and composition.

Runner's World magazine; <https://www.runnersworld.com/nutrition-weight-loss/a41557951/exercise-and-body-composition-study/>, 10/07/22

Regarding publication on genetics of liking of physical activity, I was interviewed by the American College of Sports Medicine:

<https://www.youtube.com/watch?v=5IELWY8AzYU>, 07/27/22

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

UA Department of Epidemiology and Biostatistics – Hiring Committee member for Assistant Professor candidate; Summer 2020

UA Department of Epidemiology and Biostatistics – Promotion and Tenure Committee member; Summer 2020 & Summer 2021 - Fall 2021

UA Department of Epidemiology and Biostatistics – Hiring Committee member for Assistant Professor candidate; February 2021

UA Department of Epidemiology and Biostatistics – Departmental Strategic plan - Co-leader for Research area; 2021 – 2022

UA Department of Epidemiology and Biostatistics – Epidemiology Qualifying Exam grading; Summer 2020 - current

UA Department of Epidemiology and Biostatistics – Chair, Hiring Committee for Epidemiology faculty member 2023 – 2025

UA Department of Epidemiology and Biostatistics – Promotion and Tenure Committee member; Fall 2025

College Committees

UA MEZCOPH College Environment Committee; member of Steering Committee; Lead on a sub-committee; 2016 - 2020.

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

UA MEZCOPH Research Advisory Committee; member of committee; 2016 - 2018 & 2022 - current

University Committees

UAHS Center for Applied Genetic and Genomic Medicine Executive Committee; 2015-2019

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 APR Preparation Committee; 2019 – 2020.

UAHS Strategic Plan Initiative 2.1 – Precision Health for All – Working Group; Spring 2019 – Spring 2020.

UA Center for Applied Genetics and Genomic Medicine, Division of Population Genetics; 2016 - 2022

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

UA Undergraduate Research Task Force Member, May 2022 – 2023.

UA Franke Honor's College, First Year Project; Poster judge; April 2022.

UA/Banner All of Us Research Program Seed Grant reviewer; January 2024

PEER-REVIEWED PUBLICATIONS (*indicates work done as part of PhD, ° indicates co-authors who are undergraduate or graduate advisees)

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-Lucion, 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, Going 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. 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.
49. Raichlen DA, **Klimentidis YC**, Hsu CH, Alexander GE (2019) 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*. 74(9):1461-1467.
50. 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.
51. 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*. 76(4):399-408.

52. Follis SL, Bea J, **Klimentidis YC**, Hu C, Crandall CJ, Garcia DO, Shadyab AH, Nassir R, Chen Z (2019) Psychosocial stress and bone loss among postmenopausal women: results from the Women's Health Initiative. *J Epidemiol Community Health*. 73(9):888-892
53. Santos EM, Coalson JE, Jacobs ET, **Klimentidis YC**, Munga S, Agawo M, Anderson E, Stroupe N, Ernst KC (2019) Bed net care practices and associated factors in western Kenya. *Malar J*. 14;18(1):274
54. Raichlen DA, **Klimentidis YC**, Bharadwaj PK, Alexander GE (2020) Differential associations of engagement in physical activity and estimated cardiorespiratory fitness with brain volume in middle-aged to older adults. *Brain Imaging Behav*. 14(5):1994-2003.
55. Morrill KE, Lopez-Pentecost M, Ballesteros G, Pfander JL, Hingle MD, **Klimentidis YC**, Thomson CA, Garcia DO (2019) Weight loss interventions for Hispanic women in the USA: a protocol for a systematic review. *Syst Rev*. 8(1):301
56. German CA, Sinsheimer JS, **Klimentidis YC**, Zhou H, Zhou JJ (2019) Ordered multinomial regression for genetic association analysis of ordinal phenotypes at Biobank scale. *Genetic Epidemiology*. 44(3):248-260.
57. Santos EM, McClelland DJ, Shelly CE, Hansen L, Jacobs ET, **Klimentidis YC**, Ernst KC (2020) Malaria education interventions addressing bed net care and repair practices: a systematic review. *Pathogens and Global Health*. 114(1):2-15.
58. Furlong MA, **Klimentidis YC** (2020) Associations of air pollution with obesity and body fat percentage, and modification by polygenic risk score for BMI in the UK Biobank. *Environmental Research*. 185:109364
59. **Klimentidis YC**, Arora A, Newell N°, Zhou J, Ordovas JM, Renquist BJ, Wood AC (2020) Phenotypic and Genetic Characterization of Lower LDL Cholesterol and Increased Type 2 Diabetes Risk in the UK Biobank. *Diabetes*. 69(10):2194-2205.
60. Santos EM, Coalson JE, Munga S, Agawo M, Jacobs ET, **Klimentidis YC**, Hayden MH, Ernst KC. "After those nets are torn, most people use them for other purposes": an examination of alternative bed net use in western Kenya (2020). *Malaria Journal*. 19(1):272.
61. Franchetti MK, Bharadwaj PK, Nguyen LA, Van Etten EJ, **Klimentidis YC**, Hishaw GA, Trouard TP, Raichlen DA, Alexander GE (2020) Interaction of Age and Self-reported Physical Sports Activity on White Matter Hyperintensity Volume in Healthy Older Adults. *Frontiers in Aging Neuroscience*. 12:576025.
62. Florea A, Harris RB, **Klimentidis YC**, Kohler LN, Jurutka PW, Jacobs ET (2021) Circulating Fibroblast Growth Factor-21 and Risk of Metachronous Colorectal Adenoma. *Journal of Gastrointestinal Cancer*. 52(3):940-946.
63. Zhang X, Theodoratou E, Li X, Farrington SM, Law PJ, Broderick P, Walker M, **Klimentidis YC**, Rees JMB, Houlston RS, Tomlinson IPM, Burgess S, Campbell H, Dunlop MG, Timofeeva M. (2021) Genetically predicted physical activity levels are associated with lower colorectal cancer risk: a Mendelian randomisation study. *Br J Cancer*. 124(7):1330-1338.
64. Catalfamo CJ, Heslin KM, Shilen A, Khan SM, Hunsaker JR, Austhof E, Barraza L, Cordova-Marks FM, Farland LV, Garcia-Filion P, Hoskinson J, Jehn M, Kohler LN, Lutrick K, Harris RB, Chen Z,

Klimentidis YC, Bell ML, Ernst KC, Jacobs ET, Pogreba-Brown K (2021) Design of the Arizona CoVHORT: A Population-Based COVID-19 Cohort. *Frontiers in Public Health*. 9:620060.

65. Julian TH, Glasgow N, Barry ADF, Moll T, Harvey C, **Klimentidis YC**, Newell M, Zhang S, Snyder MP, Cooper-Knock J, Shaw PJ (2021) Physical exercise is a risk factor for amyotrophic lateral sclerosis: Convergent evidence from Mendelian randomisation, transcriptomics and risk genotypes. *EBioMedicine*. 68:103397.
66. Follis S, **Klimentidis YC**, Bea J, Hu C, Garcia D, Wactawski-Wende J, Kohler L, Shadyab AH, Flores M, Tindle HA, Chen Z (2021) The intersectional role of social stress in fracture risk: results from the Women's Health Initiative. *Journal of Epidemiology and Public Health*. 75(12):1208-1214.
67. Florea A, Jacobs ET, Harris RB, **Klimentidis YC**, Thajudeen B, Kohler LN (2022) Chronic kidney disease unawareness and determinants using 1999-2014 National Health and Nutrition Examination Survey Data. *Journal of Public Health*. 44(3):532-540.
68. Chandler PD, Clark CR, Zhou G, Noel NL, Achilike C, Mendez L, Ramirez AH, Loperena-Cortes R, Mayo K, Cohn E, Ohno-Machado L, Boerwinkle E, Cicek M, Qian J, Schully S, Ratsimbazafy F, Mockrin S, Gebo K, Dedier JJ, Murphy SN, Smoller JW, Karlson EW; **All of Us Research Program Investigators** (2021) Hypertension prevalence in the All of Us Research Program among groups traditionally underrepresented in medical research. *Scientific Reports*. 11(1):12849
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activity behavior and motivation: Theories, systems, mechanisms, evolution, and genetics. *Physiological Reviews*. 105(3):1213-1290.

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102. Maltagliati S, Aslan DH, Sayre MK, Bharadwaj PK, Ally M, Lai MHC, Wilcox RR, **Klimentidis YC**, Alexander GE, Raichlen DA (2025) Nonlinear Associations of Accelerometer-Based Sedentary Time With Cognitive Functions in the UK Biobank. *J Gerontol B Psychol Sci Soc Sci*. 80(7):gbaf071.
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104. Verde L, Coletta DK, **Klimentidis YC**, Kohler LN, Soltani L, Parra OD, Parthasarathy S, Mandarino LJ, Muscogiuri G. (2025) Excessive Daytime Sleepiness and Associated Cardiometabolic Factors in Latino Individuals of Mexican Ancestry at High Risk of Type 2 Diabetes: An El Banco Biobank Cross-Sectional Study. *Nutrients*. 2025 Jul 29;17(15):2476
105. Nanda A, Aslan DH, Sayre MK, Bharadwaj PK, Ally M, Song H, Arora A, Maltagliati S, Lai MHC, Wilcox RR, **Klimentidis YC**, Alexander GE, Raichlen DA. (2025) Chronic inflammation mediates the relationship between physical activity and telomere length. *Geroscience*. In Press.

OTHER PUBLICATIONS

Klimentidis YC (2012) On the limits of diversity. Book review on Convergent evolution: limited forms most beautiful by George McGhee. *Frontiers in Genetics*. 3:136

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*. 42:2064-2065.

Degnan WJ, Barraza L, Farland LV, **Klimentidis YC**, & Jacobs ET (2021) Strengthening the Regulation of Dietary Supplements—Lessons from Prevagen®. *Update - Food and Drug Law Institute*

Raichlen DA, **Klimentidis YC**, Alexander GE (2024) Sedentary Behavior and Dementia-Reply. *JAMA*. 331(5):443.

SCHOLARLY PRESENTATIONS

Invited Oral Presentations – University of Arizona

Genetics of Type-2 Diabetes Susceptibility – UA College of Public Health Epidemiology Seminar; April, 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

Genetics to inform disease etiology and individual disease susceptibility – University of Arizona Endocrinology Grand Rounds, October, 2022

What genetics can do for epidemiology – UA College of Public Health Epidemiology Seminar; October, 2024

Invited Oral Presentations – National

Towards an Improved Prediction of Genetic Risk for Type-2 Diabetes. NIDDK - Phoenix Branch, Phoenix, AZ; May, 2013

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

Invited Oral Presentations – International

Genome-wide association study of habitual physical activity in over 377,000 UK Biobank participants – Invited Session at the Behavior Genetics Association Annual Meeting; June, 2019

Genetics of Physical Activity Behavior – Global Lab Meeting of the Genetic and Biological factors that regulate Physical Activity Consortium (GenBioPAC), September, 2022

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

LDL-C and type-2 diabetes: an inverse phenotypic association and genetic drivers in the UK Biobank. Poster presented at the American Society of Human Genetics meeting. Oct., 2019.

Genome-wide analysis of seven cardiometabolic traits implicates unfavorable adiposity as a common determinant of metabolic and cardiovascular diseases in women, but not men. Alexis C. Wood, Amit Arora, Michelle Newell, Jose M. Ordovas, Yann C. Klimentidis. 'Poster' presented at the American Society of Human Genetics meeting. Oct., 2020.

Genome-wide association study of liking of physical activity in the UK Biobank – **Oral Presentation** at the Behavior Genetics Association Annual Meeting; June, 2021

Self-reported and device-based physical activity and risk of Alzheimer's disease and related dementias: a Mendelian randomization study. Gayatri Arani, Tingting Thompson, Michelle S. Newell, Karmel W. Choi, Chia-Yen Chen, David A. Raichlen, Gene E. Alexander, Yann C. Klimentidis. Poster presented at the American Society of Human Genetics annual meeting. October 2022.

Genetically Predicted Visceral, Abdominal Subcutaneous, and Gluteofemoral Adipose Tissue and Risk of Breast Cancer: A Two-sample Mendelian Randomization Study. Gayatri Arani and Yann C. Klimentidis. Poster presented at UA Cancer Center - Cancer Research Present and Future symposium. September 2022.

Associations of dementia and physical activity polygenic scores with incident dementia in the UK Biobank. Klimentidis YC, Arora A, Raichlen DA, Alexander GE. Poster presented at the American Society of Human Genetics annual meeting. November 2024.

AWARDED GRANTS AND CONTRACTS (in last five years)

Current

National

NIH R01 AG072445 **Klimentidis (MPI)** **04/01/22 – 03/31/27**

Inactivity, sedentary behavior, and the risk for Alzheimer's disease in middle aged to older adults

This study investigates the association between sedentary behaviors (SB), brain health, and the risk of developing Alzheimer's disease and dementia, using the UK Biobank and other datasets. This study will form an essential foundation for developing effective behavioral interventions and prevention therapies for Alzheimer's disease.

Role: MPI 15% effort Total funding: \$3.36 million

NIH OT2OD026549 **Moreno (PI)** **04/01/18 – current**

University of Arizona-Banner Health All of Us Research Program

This program will use a participant-centered enrollment retention strategy to recruit 20,000 full participants annually. My role is in the analysis of data in the Researcher Workbench in support of Demonstration Projects that show the validity and utility of the All of Us Research Program.

Role: Co-Investigator 15% effort Total funding: \$11.5 million

University of Arizona

Univ. of AZ Health Sciences **Mandarino (PI)** **07/01/22 – current**

El Banco Por Salud - Center for Disparities in Diabetes, Obesity and Metabolism (CDDOM)

The CDDOM El Banco por Salud (Wellness Bank) will serve as a resource of consented patients to facilitate connections between academic researchers and the community, in particular related to type 2 diabetes mellitus. The Wellness Bank will create a biorepository, with specimens, patient data, and patients consented for contact for future studies and use of DNA.

Role: Co-Investigator 20% effort

Internal funding **Klimentidis (PI)** **8/1/21 - current**

Mel and Enid Zuckerman College of Public Health – Internal funding for Lipedema research

This funding supports research into the epidemiology and genetics of lipedema, using DXA images to identify women with lipedema in large cohorts.

Role: PI 10.5% effort

U. of Arizona/Banner - All of Us 'Driver Grant' **Valencia, C (PI)** **01/2024 – 08/2024**

Structural forces resulting in social isolation as a key driver of health disparities in low socioeconomic status individuals.

Role: Co-I 10% effort Total funding: \$27,294

U. of Arizona/Banner – All of Us Seed Grant **Nuno, T (PI)** **03/2024 – 02/2025**

Type-2 diabetes and cardiovascular disease outcomes among Black and Hispanic populations with and without COVID-19, by geographic regions of the United States

Role: Co-I

5% effort

Total funding: \$40,000

Completed

National

NIH R56 HL160907

Bime (PI)

09/19/22 – 08/31/23

Increasing the Success of ARDS Therapeutic Clinical Trials: Novel Trial Design and Targeting of the P-selectin Pathway

In this project, we leverage important existing resources from the NIH/NHLBI (ARDSNet -Low tidal Volume and elevated End-expiratory volume to Obviate Lung Injury [ALVEOLI] dataset) and NIH/NIAID (Immunophenotyping Assessment in a COVID-19 Cohort [IMPACC]) to define a novel genetics-based biomarker risk score to serve as a 'point of care' pharmacogenetic enrichment tool for clinical trials targeting P-selectin glycoprotein ligand (PSGL1)/P-selectin interactions in ARDS.

Role: Co-Investigator

25% effort

Total funding: \$529,354

NIH R01 HL136528

Klimentidis (PI)

04/01/18 –

01/30/22

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

University of Arizona

UA RII # 2100832

Klimentidis (PI)

07/01/20 –

02/28/21

Phenome-wide associations of metabolic disorder measurements within the All of Us Research dataset to investigate internal and external validity

Using data from the All of Us Research Program, this project aims to examine cardiometabolic measurements across different ethnic/racial groups in order to set a foundation for future funding for All of Us research.

Role: PI

Total funding: \$5,000

American Cancer Society

Institutional Cancer Research Grant,

#16-124-37

Garcia (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

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 "Mona Khan", followed by a small asterisk.