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Center for Research on Genomics and Global Health
National Human Genome Research Institute
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Current Appointment

December 2016 to present: Staff Scientist, Center for Research on Genomics and Global Health, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD.

Education

March 2014 to December 2016: Research Fellow, Center for Research on Genomics and Global Health, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD.

August 2010 to March 2014: Postdoctoral Fellow, Center for Research on Genomics and Global Health, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD.

January to August 2010: Division of Nutritional Sciences, Cornell University, Ithaca, NY. Postdoctoral Associate.

January 2004 to January 2010: Cornell University, Ithaca, NY. Doctoral Program in Nutritional Sciences with Minors in Epidemiology and Population Genetics; Dissertation “Oxidant-Antioxidant Balance and Lung Outcomes: The Role of Nutrition, Genetic Susceptibility, and Cigarette Smoking”

August 2001 to May 2003: LaSalle University, Philadelphia, PA. BS in Nutrition

May 2000 to May 2001: University of Pennsylvania, Philadelphia, PA. Coursework in Chemistry

August 1992 to May 1995 & August 1996 to May 1997: Guilford College, Greensboro, NC. BA in English with Minors in Spanish and International Studies

August to December 1993: Study Abroad at Beijing University’s Foreign Language Normal College, China

August to December 1994: Study Abroad at University of Guadalajara, Mexico

Mentorship

2022 to present: Ms. Edra Ha (Postbac Student)

2018 to present: Dr. Karlijn Meeks (Postdoctoral Fellow, Research Fellow)

2017-2018: Dr. Chang Liu (Visiting Fellow)

2016-2017: Dr. Jenna Baker (Postdoctoral Fellow)

2005-2006: Parastu Emrani (Undergraduate Researcher)

Training and Professional Experience

October 2023: Moderator, Gene-Lifestyle Interactions Working Group Meeting, CHARGE Investigators Meeting, San Antonio, TX.

May 2023: Moderator, Gene-Lifestyle Interactions Working Group Meeting, CHARGE Investigators Meeting, Boston, MA.

May 2023: Thesis Examiner, Doctoral Candidate, University of the Witwatersrand, Johannesburg, South Africa.

February 2023: Session Co-Chair, International Congress of Human Genetics, Cape Town, South Africa

February 2023: Reviewer, NHGRI iSPRING Summer Program Applications.

2023: NHGRI Awards Nomination Review Committee Member

November 2022: Moderator and Planning Committee, “The ABCs of DEIA: A Panel Discussion on Diversity, Equity, Inclusion and Accessibility”, 2022 NHGRI Symposium, National Institutes of Health, Bethesda, MD.

October 2022: Moderator, Gene-Lifestyle Interactions Working Group Meeting, CHARGE Investigators Meeting, Seattle, WA.

June 2022: Reviewer, Intramural AIDS Research Fellowship Applications, Office of AIDS Research, Office of Intramural Research, and Office of Intramural Training and Education, NIH

February 2022: Guest Lecturer, “The Importance of Representation of African Ancestry Populations in Genomic Research,” NIH FAES course: Global Health and Non-Communicable Diseases.

February 2022: Moderator, Post-Town Hall Discussion Session on Inclusion and Diversity Initiatives at NHGRI and NIH

February 2021: Judge, NIH Graduate Student Research Symposium

January 2021: Co-moderator, “The Impact of COVID-19 in the Context of Society and Biology”, a Genomics in the Public Square interactive webinar co-sponsored by CRGGH and George Washington University

June 2020: Co-moderator, “Building for the Future,” NHGRI Small Discussion Group regarding racial injustice

May 2020: Co-chair, Planning Committee, and presenter for NHGRI Diversity and Inclusion Panel Discussion

2018 to present: Member, NHGRI Inclusion Taskforce

April 2017: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

May 2016: Lecturer on Genomic Variation in Health Disparities for “Applications of Genomics to Public Health Challenges” course offered at NHGRI, NIH, Bethesda, MD

April 2016: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

November 2015: Introduction to Python Programming, Center for Information Technology, NIH

September 2015: Scientists Teaching Science, Office of Intramural Training and Education, NIH

April 2015: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

December 2014: Sequence Analysis Workshop, University of Michigan Center for Statistical Genetics

May 2014: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

April 2014: Judge, American Society of Human Genetics DNA Day Essay Contest.

May 2013: Instructor, Early Bird Session (“An introduction to the analysis of sequence data”), African Society of Human Genetics Meeting, Accra, Ghana.

May 2013: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

December 2012: Short Course on Next-Generation Sequencing: Technology & Statistical Methods, University of Alabama at Birmingham

June 2012: Careers in Grants Management, National Institutes of Health, Bethesda, MD

May 2011: Judge, Postbac Poster Day, National Institutes of Health, Bethesda, MD

May 2011: UNIX 101, National Human Genome Research Institute, Bethesda, MD

March 2011: Genetic Association Course, Baylor College of Medicine, Houston, TX

February 2011: National Center for Biotechnology Information’s Discovery Workshop, NIH, Bethesda, MD

January 2004 to December 2005: Teaching Assistant, Nutrition/Dietetics Courses, Cornell University, Ithaca NY

June 2003 to September 2003: Nutrition Educator, Philadelphia Corporation for the Aging, Philadelphia PA

June 2002 to June 2003: Student Nutritionist, Women, Infants, and Children, Philadelphia, PA

October 1998 to June 2002: Administrative Coordinator, English Language Programs, University of Pennsylvania, Philadelphia, PA

January 1997 to May 1997: Teaching Assistant, English, Guilford College, Greensboro, NC

Fellowships and Honors

June 2019: Early Career Achievement Award for the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium

October 2017: Recipient of NHGRI GREAT Award for Diversity and Inclusion as part of the Rotimi Diversity team “For efforts in promoting diversity and inclusion in genomic research.”

October 2017: Recipient of NHGRI GREAT Award for Diversity and Inclusion as part of the GRASP team “For major advances in understanding the genetic basis for disparities in the frequency and severity of scleroderma, a life-threatening autoimmune disease, in African Americans.”

November 2016: National Human Genome Research Institute’s Intramural Research Award

June 2011: Full scholarship to attend the Human Genome Variation 2011 meeting to present “GWAS of serum iron concentrations in African Americans”

May 2010: Selected to represent all graduating Ph.D. students for May 2010 Commencement Ceremony

November 2009: Selected for the NIH’s National Graduate Student Research Festival

January 2006 to December 2009: National Institutes of Health Training Grant Recipient

May 2003: Top Graduate in Nutrition, LaSalle University, Philadelphia, PA

August 2002 to May 2003: American Dietetics Foundation Scholarship

August 2001 to May 2003: Founders Scholarship, LaSalle University, Philadelphia, PA

August 1992 to May 1997: Full Merit Scholarship, Guilford College, Greensboro, NC

August 1992 to May 1997: National Merit Scholarship

Publications

Guirette M, Lan J, McKeown N, Brown MR, Chen H, de Vries PS, Kim HJ, Rebholz CM, Morrison AC, Bartz TM, Fretts AM, Guo X, LeMaitre RN, Liu CT, Noordam R, De Mutsert R, Rosendaal FR, Wang CA, Beilin L, Mori TA, Oddy WH, Pennell CE, Chai JF, Whitton C, van Dam RM, Liu JJ, Tai ES, Sim X, Neuhouser ML, Kooperberg C, Tinker L, Franceschini N, Huan T, Winkler TW, **Bentley AR**, Gauderman WJ, Heerkens L, Tanaka T, van Rooij J, Munroe PB, Warren HR, Voortman T, Rao DC, Levy D, and Ma J. Genome-Wide Interaction Analysis with

DASH Diet Score Identified Novel Loci for Systolic Blood Pressure.
Hypertension, 2023 (accepted)

Meeks KAC, **Bentley AR**, Assimes TL, Franceschini N, Adeyemo AA, Rotimi CN, and Doumatey AP. Mendelian randomization analyses suggest a causal role for circulating GIP and IL-1RA levels in homeostatic model assessment-derived measures of β -cell function and insulin sensitivity in Africans without type 2 diabetes. *Genome Med*, 2023, 15(1):108.

Hughes O*, **Bentley AR***, Breeze CE*, Aguet F, Xu X, Nadkarni G, Sun Q, Lin BM, Gilliland T, Meyer MC, et al. Genome-wide association study for kidney function in individuals of African ancestry and ancestry in the Americas provides insight into effector genes and polygenic prediction. *Cell Genom*, 2023, 4(1):100468. *co-first authors

de las Fuentes L*, Schwander K*, Brown MR*, **Bentley A***, Winkler TW*, Sung YJ*, Munroe PB*, Miller C*, et al. Gene-educational attainment interactions in a multi-population genome-wide meta-analysis identify novel lipid loci. *Front Genet*, 2023, 14:1235337. *co-first authors

Gouveia MH, **Bentley AR**, Peixoto Leal T, Tarazona-Santos E, Bustamante CD, Adeyemo AA, Rotimi CN, Shriner DS. Unappreciated Subcontinental Admixture in Europeans and European Americans: Implications for Genetic Epidemiology Studies. *Nat Comm*, 2023, 14(1):6802.

Shriner D, **Bentley AR**, Gouveia MH, Heuston EF, Doumatey AP, Chen G, Zhou J, Adeyemo A, Rotimi CN. Universal Genome-Wide Association Studies: Powerful Joint Ancestry and Association Testing. *HGG Adv*, 2023, 4(4):100235.

Doumatey AP*, **Bentley AR***, Akinyemi R, Olanrewaju TO, Adeyemo A, Rotimi C. Genes, environment, and African ancestry in cardiometabolic disorders. *Trends Endocrinol Metab*, 2023, 34(10):601-621. *co-first authors

Meeks KAC, **Bentley AR**, Agyemang C, Galenkamp H, van den Born BJH, Hanssen NMJ, Doumatey AP, Adeyemo AA, Rotimi CN. Ancestral and environmental patterns in the association between triglycerides and other cardiometabolic risk factors. *EBioMedicine*, 2023, 91:104548.

Majarian TD*, **Bentley AR***, Laville V, Brown MR, Chasman DI, de Vries PS, Feitosa MF, Franceschini N, Gauderman WJ, Levy D, Morrison AC, Province, M, Rao DC, Schwander K, Sung YU, Rotimi CN, Aschard H, Gu CC, Manning AK, on behalf of the CHARGE Gene Lifestyle Interactions Working Group. Multi-omics insights into the biological mechanisms underlying statistical gene-by-lifestyle

- interactions with smoking and alcohol consumption. *Front Genet*, 2022, 13:954713. *co-first authors
- Meeks KAC, **Bentley AR**, Doumatey AP, Adeyemo AA, Rotimi CN. Mendelian randomization study reveals a causal relationship between adiponectin and LDL cholesterol in Africans. *Sci Reports*, 2022, 12:18955.
- Chen L, Tian R, Chen GJ, Yuan A, Li C-M, **Bentley AR**, Hoffman HJ, Rotimi CN. Semiparametric partial linear modeling of risk factors for ear infections: The Early Childhood Longitudinal Study (ECLS). *J Appl Stat*, 2022, DOI: 10.1080/02664763.2022.2134316
- Kanoni S, Graham SE, Wang Y, Surakka I, Ramdas S... **Bentley AR**... Willer CJ, Assimes TL, Peloso GM. Implicating genes, pleiotropy and sexual dimorphism at blood lipid loci through multi-ancestry meta-analysis. *Genome Biol*, 2022, 23(1):268.
- Ramdas S, Judd J, Graham SE... **Bentley AR**... Willer CJ, Zhu X, Brown CD. A multi-layer functional genomic analysis to understand noncoding genetic variation in lipids. *AJHG*, 2022, 109(8): 1366-1387.
- Chen GJ, Shriner D, Zhang J, Zhou J, Adikaram P, Doumatey AP, **Bentley AR**, Adeyemo A, Rotimi CN. Additive genetic effect of *GCKR*, *G6PC2*, and *SLC30A8* variants on fasting glucose levels and risk of type 2 diabetes. *PLoS One*. 2022, 17(6):e0269378.
- Wang Z, Emmerich A, Pillon NJ, Moore T, Hemerich D, Cornelis MC, Mazzaferro E, Broos S, Ahluwalia TS, Bartz TM, **Bentley AR**,...den Hoed M. Genome-wide association analyses of physical activity and sedentary behavior provide insights into underlying mechanisms and roles in disease prevention. *Nat Genetics*, 2022, 54(9):1332-1344.
- Laville V, Majarian T, Sung YJ, Schwander K, Feitosa MF, Chasman DI, **Bentley AR**, Rotimi CN, Cupples LA, de Vries PS, Brown MR, Morrison AC, Kraja AT, Province M, Gu CC, Gauderman J, the CHARGE Gene-Lifestyle Interactions Group, Rao DC, Manning A, Aschard H. Gene-Lifestyle Interactions in the genomics of human complex traits. *Eur J Hum Genet*, 2022, 30(6):730-739.
- Graham SE, Clarke SL, Wu K-H, Kanoni S, Zajac GJM, Ramdas S, Surakka I, Ntalla I, Vedantam S, Winkler TW, Locke AE, Marouli E, Hwang MY, Han S, Narita A, Choudhury A, **Bentley AR**... Willer C. The power of genetic diversity in genome-wide association studies of lipids. *Nature*, 2021, 600(7890):675-679.

Liu C, Yuan YC, Guo MN, Xin Z, Chen GJ, **Bentley AR**, Hua L, Zheng JP, Ekoru K, Yang JK. Incidence of type 1 diabetes may be underestimated in Chinese population: evidence from 21.7 million people between 2007 and 2017. *Diabetes Care*, 2021, 44(11):2503-2509.

Meeks KAC, **Bentley AR**, Gouveia MH, Chen GJ, Zhou J, Lei L, Adeyemo AA, Doumatey AP, Rotimi CN. Genome-wide analyses of multiple obesity-related cytokines and hormones informs biology of cardiometabolic traits. *Genome Med*. 2021; 13(1):156.

Bentley AR, Chen G, Doumatey AP, Shriner D, Meeks KAC, Gouveia MH, Ekoru K, Zhou J, Adeyemo A, Rotimi CN. GWAS in Africans identifies novel lipids loci and demonstrates heterogenous association within Africa. *Hum Mol Genet*, 2021; 30(2), 2205-2214.

Meeks KAC*, **Bentley AR***, Adeyemo AA, Rotimi CN. Evolutionary forces in diabetes and hypertension pathogenesis in Africans. *Hum Mol Genet*, 2021; 30 (2), R110-R118. *co-first authors

Chen G, Adeyemo A, Zhou J, Doumatey AP, **Bentley AR**, Ekoru K, Shriner D, Rotimi CN. A *UGT1A1* variant is associated with serum total bilirubin levels which are causal for hypertension in African-ancestry individuals. *NPJ Genom Med*, 2021; 6(1):44.

Wang H*, Noordam R*, Cade BE*, Schwander K*, Winkler TW*, Lee J*, Sung JY*, **Bentley AR***...Rao DC, Redline S, van Heemst D. Multi-ancestry genome-wide gene-sleep interactions identify novel loci for blood pressure. *Mol Psychiatry*, 2021; 26(11):6293-6304. *co-first authors

Ekoru K, Adeyemo AA, Chen G, Doumatey AP, Zhou J, **Bentley AR**, Shriner D, Rotimi CN. Genetic Risk Scores for Cardiometabolic Traits in sub-Saharan African Populations. *Int J Epidemiol*, 2021; 50(4):1283-1296.

Rotimi CN, Callier SL, **Bentley AR**. Lack of Diversity Hinders the Promise of Genome Science. In "Complicated Legacies: The Human Genome at 20", *Science*. 2021; 371(6529):564-569.

Gouveia MH, **Bentley AR**, Hampton L, Meeks KAC, Ekoru K, Chen G, Nalls MA, Tarazona-Santos E, Fernanda Lima-Costa M, Adeyemo A, Shriner D, Rotimi CN. Multi-ancestry meta-analysis of longitudinal blood pressure identifies novel genetic associations. *Sci Rep*. 2021 Feb 18;11(1):4075

- Adeyemo AA, Shriner D, **Bentley AR**, Gbadegesin RA, Rotimi CN. Evolutionary Genetics and Acclimatization in Nephrology. *Nat Rev Nephrol.* 2021, 17(12):827-839.
- Shriner D, **Bentley AR**, Zhou J, Ekoru K, Doumatey AP, Chen G, Adeyemo A, Rotimi CN. Time-to-event modeling of hypertension reveals the nonexistence of true controls. *eLIFE.* 2020; 9:e62998.
- Agongo G, Amengo-Etego L, Nonterah EA, Debpuur C, Choudhury A, **Bentley AR**, Oduro AR, Rotimi CN, Crowther NJ, Ramsay M, as members of AWI-Gen and H3Africa. Candidate Gene Analysis Reveals Strong Association of CETP Variants with High Density Lipoprotein Cholesterol and PCSK9 Variants with Low Density Lipoprotein Cholesterol in Ghanaian Adults: An AWI-Gen Sub-Study. *Front Gen.* 2020; 11:456661.
- Meeks KAC*, **Bentley AR***, Adeyemo A, Rotimi CN. Evolutionary Forces in Diabetes and Hypertension Pathogenesis in Africans. *Hum Mol Genet.* 2021,30(R1):R110-R118 *co-first authors
- Meeks KAC, Doumatey AP, **Bentley AR**, Gouveia MH, Chen G, Zhou J, Lei L, Adeyemo AA, Rotimi CN. The Genetics of Circulating Resistin Level, A Biomarker for Cardiovascular Diseases, Is Informed by Mendelian Randomization and the Unique Characteristics of African Genomes. *Circ Genom Precis Med.* 2020; 13:488-503.
- Laville V, Majarian T, de Vries PS, **Bentley AR**, Feitosa MF, Sung YJ, Rao DC, Manning A, Ashcard H, CHARGE Gene-Lifestyle Interactions Working Group. Deriving stratified effects from joint models investigating gene-environment interactions. *BMC Bioinformatics.* 2020;21(1):251.
- de las Fuentes L, Sung Y, Noordam R, Winkler T, Feitosa M, Schwander K, **Bentley A** ... Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. *Mol Psychiatry.* 2020; 26(6):2111-2125.
- Hayat M, Kerr R, **Bentley AR**, Rotimi CN, Raal FJ, Ramsay M. Genetic associations between serum low LDL-cholesterol levels and variants in *LDLR*, *APOB*, *PCSK9* and *LDLRAP1* in African populations. *PLoS One.* 2020; 15(2): e0229098.
- Ekoru K, Doumatey A, **Bentley AR**, Chen GJ, Zhou J, Shriner D, Fasanmade O, Okafor G, Eghan B Jr, Agyenim-Boateng K, Adeleye J, Balogun W, Amoah A, Acheampong J, Johnson T, Oli J, Adebamowo C, Collins F, Dunston G, Adeyemo A, Rotimi C. Type 2 diabetes complications and comorbidity in Sub-Saharan Africans. *EClinicalMedicine.* 2019;16:30-41.

Chen G, Shriner D, Doumatey AP, Zhou J, **Bentley AR**, Lei L, Adeyemo A, Rotimi CN. Refining genome-wide associated loci for serum uric acid in individuals with African ancestry. *Hum Mol Genet.* 2020; 29(3):506-514.

Gourh P, Safran SA, Alexander T, Boyden SE, Morgan ND, Shah AA, Mayes MD, Doumatey A, **Bentley AR**, Shriner D, Domsic RT, Medsger TA Jr, Ramos PS, Silver RM, Steen VD, Varga J, Hsu V, Saketkoo LA, Schiopu E, Khanna D, Gordon JK, Kron B, Criswell LA, Gladue H, Derk CT, Bernstein EJ, Bridges SL Jr, Shanmugam VK, Kolstad KD, Chung L, Kafaja S, Jan R, Trojanowski M, Goldberg A, Korman BD, Steinbach PJ, Chandrasekharappa SC, Mullikin JC, Adeyemo A, Rotimi C, Wigley FM, Kastner DL, Boin F, Remmers EF. *HLA* and autoantibodies define scleroderma subtypes and risk in African and European Americans and suggest a role for molecular mimicry. *PNAS.* 2020 Jan 7; 117(1):552-562.

Bentley AR, Callier SL, Rotimi CN. Evaluating the Promise of Inclusion of African Ancestry Populations in Genomics. *NPJ Genom Med.* 2020 Feb 25; 5:5.

Noordam R*, Bos M*, Wang H*, Winkler T*, **Bentley A***... Redline S. Multi-ancestry sleep-by SNP interaction analysis in 126,926 individuals reveals lipid loci stratified by sleep duration. *Nat Comm.* 2019;10(1):5121. *co-first authors

Clark D, Okada Y, ... **Bentley AR**... Wilson J. Associations of autozygosity with a broad range of human phenotypes. *Nat Comm.* 2019;10(1):4957.

Adeyemo A, Zaghoul NA, Chen G, Doumatey A, Leitch C, Hostelley T, Nesmith J, Zhou J, **Bentley AR**, Shriner D, Fasanmade O, Okafor G, Eghan B, Agyenim-Boateng K, Chandrasekharappa S, Adeleye J, Balogun W, Owusu S, Amoah A, Acheampong J, Johnson T, Oli J, Adebamowo C, Collins F, Dunston G, Rotimi C. *ZRANB3* is an African-specific type 2 diabetes locus associated with beta-cell mass and insulin response. *Nat Comm.* 2019; 10(1):3195.

Liu C, Chen G, **Bentley AR**, Doumatey AP, Zhou J, Adeyemo A, Yang J, Rotimi C. Genome-wide Association Study for Diabetic Retinopathy in Africans. *NPJ Genom Med.* 2019; 4(20).

Chen G, Yuan A, Cai T, Li C, **Bentley AR**, Zhou J, Shriner D, Adeyemo A, Rotimi C. Measuring gene-gene interaction using Kullback-Leibler divergence. *Ann Hum Gen.* 2019; 83(6):405.

Sung YJ, de Las Fuentes L, Winkler TW, Chasman DI, **Bentley AR**, et al. A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies

- multiple new loci for pulse pressure and mean arterial pressure. *Hum Mol Genet.* 2019; 28(15):2615-33.
- Bentley AR**, Callier SL, Rotimi CN. The Emergence of Genomics Research in Africa and New Frameworks for Equity in Biomedical Research. *Ethnicity and Disease.* 2019;29(Suppl 1):179-186.
- Bentley AR**, et al. Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies novel lipid loci associated with serum lipids. *Nat Genet.* 2019 Apr;51(4):636-648
- De Vries PS, Brown MR, **Bentley AR**, et al. Multi-ancestry genome-wide association study incorporating gene-alcohol interactions identifies new lipid loci. *Am J Epidemiol.* 2019 Jun 1;188(6):1033-1054.
- Kilpelainen TO, **Bentley AR**, et al. Multi-Ancestry Study of Blood Lipid Levels Identifies Four Loci Interacting with Physical Activity. *Nat Comm.* 2019 Jan 22; 10(1):376.
- Callier SL, **Bentley AR**, Rotimi CN. Why genomic research must be diverse and inclusive. *Atlas of Science.* 2018 June 20.
- Feitosa MF, Kraja AT, Chasman DI, Sung YJ, Winkler TW, Ntalla I, Guo X, Franceschini N, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Li C, **Bentley AR**, et al. Novel Genetic Associations for Blood Pressure Identified via Gene-Alcohol Interaction in up to 570K Individuals across Multiple Ancestries. *PLoS One.* 2018 Jun 18; 13(6). e0198166.
- Gourh P, Remmers EF, Boyden SE, Alexander T, Morgan ND, Shah AA, Mayes MD, Doumatey A, **Bentley AR**, Shriner D, Domsic RT, Medsger TA Jr, Steen VD, Ramos PS, Silver RM, Korman B, Varga J, Schioppa E, Khanna D, Hsu V, Gordon JK, Saketkoo LA, Gladue H, Kron B, Criswell LA, Derk CT, Bridges SL Jr, Shanmugam VK, Kolstad KD, Chung L, Jan R, Bernstein EJ, Goldberg A, Trojanowski M, Kafaja S, Maksimowicz-McKinnon KM, Mullikin JC; NISC Comparative Sequencing Program, Adeyemo A, Rotimi C, Boin F, Kastner DL, Wigley FM. Whole-Exome Sequencing to Identify Rare Variants and Gene Networks that Increase Susceptibility to Scleroderma in African Americans. *Arthritis Rheumatol.* 2018 Oct; 70(10): 1654-1660.
- LaVille V, **Bentley AR**, Privé F, Zhu X, Gauderman J, Winkler TW, Province M, Rao DC, Aschard H, on behalf of the CHARGE Gene-Lifestyle Interactions Working Group. VarExp: Estimating Variance Explained by Genome-Wide G×E Summary Statistics. *Bioinformatics.* 2018 Oct 1; 34(19): 3412-3414.
- Sung YJ, Winkler TW, de Las Fuentes L, **Bentley AR***, et al. A Large-Scale Multi-ancestry Genome-wide study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. *Am J Hum Genet.* 2018 Mar 1; 102 (3):375-400. *co-first authors
- Utumatwishima JN, Chung ST, **Bentley AR**, Udahogora M, Sumner AE. Reversing the tide – diagnosis and prevention of T2DM in populations of African descent. *Nat Rev Endocrinol.* 2018 Jan; 14(1): 45-56.
- Rotimi CN, **Bentley AR**, Doumatey AP, Chen G, Shriner D, Adeyemo A. The genomic landscape of African populations in health and disease. *Hum Mol Genet.* 2017; 26(R2): R225-R236.
- Bentley AR**, Callier S, Rotimi CN. Diversity and inclusion in genomic research: why the uneven progress? *J Community Genet.* 2017 Oct;8(4):255-266. PMC5614884

Bentley AR, Rotimi CN. Interethnic Differences in Serum Lipids: Implications for Cardiometabolic Disease Risk in African Ancestry Populations. *Glob Heart*. 2017; 12(2):141-150. PMC5582986

Chen G, Zhang Z, Adebamowo SN, Liu G, Adeyemo A, Zhou Y, Doumatey AP, Wang C, Zhou J, Yan W, Shriner D, Tekola-Ayele F, **Bentley AR**, Jiang C, Rotimi CN. Common and rare exonic MUC5B variants associated with type 2 diabetes in Han Chinese. *PLoS One*. 2017 Mar 27;12(3). PMC5367689

Chen G, Doumatey AP, Zhou J, Lei L, **Bentley AR**, Tekola-Ayele F, Adebamowo SN, Baker JL, Fasanmade O, Okafor G, Eghan B Jr, Agyenim-Boateng K, Amoah A, Adebamowo C, Acheampong J, Johnson T, Oli J, Shriner D, Adeyemo AA, Rotimi CN. Genome-wide analysis identifies an African-specific variant in *SEMA4D* associated with body mass index. *Obesity (Silver Spring)*. 2017 Apr;25(4):794-800. PMC5373947

Baker JL, Shriner D, **Bentley AR**, Rotimi CN. Pharmacogenomic implications of the evolutionary history of infectious diseases in Africa. *Pharmacogenomics J*. 2017 Mar; 17(2):112-120. PMC5380847

Liu C-T, Raghavan S, Maruthur N, Kabagambe EK, Hong J, Ng MCY, Hivert M-F, Lu Y, An P, **Bentley AR**, Drolet AM, Gaulton KJ, Guo X, Armstrong LL, Irvin MR, Li M, Lipovich L, Rybin DV, Taylor KD, Agyemang C, Palmer ND, Cade BE, Chen W-M, Dauriz M, Delaney JAC, Edwards TL, Evans DS, Evans MK, Lange LA, Leong AS, Liu J, Liu Y, Nayak U, Patel SR, Porneala BC, Rasmussen-Torvik LJ, Snijder MB, Stallings S, Tanaka T, Yanek LR, Zhao W, Becker DM, Bielak LF, Biggs ML, Bottinger EP, Bowden DW, Chen G, Correa A, Couper DJ, Crawford DC, Cushman M, Eicher JD, Fornage M, Franceschini N, Fu Y-P, Goodarzi MO, Gottesman O, Hara K, Harris TB, Jensen RA, Johnson AD, Jhun MA, Karter AJ, Keller MF, Kho AN, Kizer JR, Krauss R, Langefeld CD, Li X, Liang J, Liu S, Lowe WL, Mosley TH, North KE, Pacheco JA, Peyser PA, Patrick AL, Rice KM, Selvin E, Sims M, Smith JA, Tajuddin SM, Vaidya D, Wren MP, Yao J, Zhu X, Ziegler JT, Zmuda JM, Zonderman AB, Zwinderman AH, AAAG Consortium, CARE Consortium, COGENT Consortium, eMERGE Consortium, MEDIA Consortium, Adeyemo A, Boerwinkle E, Ferrucci L, Hayes MG, Kardina SLR, Miljkovic I, Pankow JS, Rotimi CN, Sale MM, Wagenknecht LE, Arnett DK, Chen I, Nalls MA, MAGIC Consortium, Province MA, Kao WHL, Siscovick DS, Psaty BM, Wilson JG, Loos RJJ, Dupuis J, Rich SS, Florez JC, Rotter JI, Morris AP, Meigs JB. Trans-ethnic Meta-Analysis and Functional Annotation Illuminates the Genetic Architecture of Fasting Glucose and Insulin. *Am J Hum Genet*. 2016 July; 99(1):56-75. PMC5005440

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Bentley AR, Doumatey AP, Zhou J, Meeks KAC, Heuston E, Rotimi CN, Adeyemo AA. Lipidomics Profiling and Plasma Triglyceride Concentration in African Populations. Poster: American Society of Human Genetics, Washington, DC. October 2023.

Bentley AR, Majarian TD, Laville V, Brown MR, Chasman DI, Rotimi CN, Aschard H, Gu CC, Manning AK on behalf of the CHARGE Gene-Lifestyle Interactions Working Group. Multi-omics insights into the biological mechanisms underlying gene-by-smoking and gene-by-alcohol consumption interactions. CHARGE Webinar. March 2023.

Bentley AR, Doumatey AP, Zhou J, Meeks KAC, The AADM Study Investigators, Adeyemo AA, Rotimi CN. Lipidomics Profiling and Plasma Triglyceride Concentrations in West Africans. Poster: International Congress of Human Genetics, Cape Town, South Africa, February 2023.

Gouveia MH & **Bentley AR**. Subcontinental Admixture in Individuals with European Ancestry and Implications for Genetic Epidemiology Studies. International Congress of Human Genetics, Cape Town, South Africa, February 2023.

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- Bentley AR**. CHARGE Gene-Lifestyle Interactions Working Group: Lessons Learned. Invited Speaker for Global Lipids Genetics Consortium Breakfast, American Society of Human Genetics, Los Angeles, CA, October 2022.
- Bentley AR**, Gu CC, Manning AK. Multi-omics insights into the biological mechanisms underlying gene-by-smoking and gene-by-alcohol consumption interactions. Poster: CHARGE Investigators Meeting, Seattle, WA, October 2022.
- Bentley AR**. Diversity in Research. École Secondaire Samuel-De Champlain, Québec, Canada, May 2022.
- Bentley AR**. Health Disparities in Cardiometabolic Traits: Genomics, Gaps, and Paradoxes, Invited Speaker for Racial Disparities in Health and Disease session. Experimental Biology Meeting, Philadelphia, PA, April 2022.
- Bentley AR** & Rotimi CN. Do Methods of Inclusion and Presentation of non-European Ancestry Data in GWAS allow for Novel Discoveries? Poster: American Society of Human Genetics (virtual), October 2021.
- Bentley AR**. The Importance of Representation of African Ancestry Populations in Genomic Research. Keynote Address at 2nd Conference of the Nigerian Bioinformatics and Genomics Network, Landmark University, Omu-Aran, Nigeria, October 2021.
- Bentley AR**, Chen G, Doumatey AP, Shriner D, Meeks K, Gouveia MH, Ekoru K, Zhou J, the Africa America Diabetes Mellitus Investigators, Adeyemo A, Rotimi CN. GWAS in Africans Identifies Novel Lipids Loci and Demonstrates Heterogeneous Association within Africa. American Society of Human Genetics (virtual), October 2020.
- Bentley AR**, Johnston JJ, Adebawale A, Biesecker LG, Rotimi CN. GWAS Arrays as potential sources of Secondary Genomic Findings: Implications for Return of Results. Poster: American Society of Human Genetics, Houston, TX, October 2019.
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