Stanford

Themistocles (Tim) Assimes

Associate Professor of Medicine (Cardiovascular Medicine) and, by courtesy, of Epidemiology and Population Health

Medicine - Cardiovascular Medicine

CONTACT INFORMATION

- **Administrative Contact**

  Email tassimes@stanford.edu

Bio

BIO

I am a board-certified clinical cardiologist with a doctorate degree in Epidemiology & Biostatistics. I have been practicing medicine for nearly 30 years and I have over 20 years of experience conducting research. I was born and raised in Montreal, Canada, where I received my medical degree from McGill University in 1994. I then pursued training in surgery for nearly two years before switching into internal medicine. I completed my residency in internal medicine as well as a Master's degree in Epidemiology and Biostatistics at McGill under the supervision of Dr. Samy Suissa before moving to Stanford University in 2001 to pursue fellowship training in adult cardiology. During my fellowship and Instructorship years at Stanford University, I completed a PhD in Epidemiology and Biostatistics in pharmacoepidemiology once again under Dr. Suissa's supervision.

My principal research focus since moving to Stanford has been the identification of the genomic determinants of coronary heart disease (CHD) and risk factors of CHD. This transition in my research focus occurred thanks to the sage advice and unique opportunities provided to me by Dr. Thomas Quertermous, former chief of the Division of Cardiovascular Medicine and my primary mentor for many years after my arrival to Stanford. Since that transition, I have devoted a majority of my time performing advanced population based studies on the genomic causes of heart attacks and the common conditions that predispose people to heart attacks including high cholesterol, smoking, diabetes, obesity, high blood pressure, and insulin resistance. These research efforts go beyond the standard genetic variant association analyses and include analyses, interpretation, and integration of multi-omic data, construction and validation of polygenic scores, as well as Mendelian randomization, epigenetic association, and gene set enrichment analyses to help identify novel pathways of CHD in diverse populations.

In this context, I have heavily contributed to and/or led several translational team science endeavors at both the national and international level by representing Stanford in large consortia meta analyzing genomic data. These consortia include CARDIoGRAMplusC4D, GLGC, GIANT, GENESIS, TAICHI, and PAGE. I have also been an active Women's Health Initiative (WHI) investigator since 2010 serving as chair/co-chair of the WHI Genetics, Proteomics, and Biomarkers Scientific Interest Group and a member of the WHI Ancillary Studies Committee, while concurrently launching several genomic studies that have generated blood methylation, circulating miRNA, telomere lengths, and bulk RNA-seq resources within WHI. Through WHI, I have also served as a senior/key co-Investigator in NHLBI’s Trans-Omics for Precision Medicine (TOPMed) program where I have led whole genome sequencing projects related to CHD.

Starting in 2016, I became intricately involved in the Million Veteran Program (MVP) and have since served as a senior/key co-Investigator and/or a PI in multiple funded projects focused on the genetics of cardiometabolic traits. I also serve, or have served, as a co-chair of the MVP P&P Committee, the MVP CVD/Lipids Working Group, and the MVP COVID-19 Science Program Genomics and PRS Working Group. As a consequence of my heavy involvement in MVP, I was dually

appointed (full-time) at the VA Palo Alto Healthcare System in 2018. In partnership with Dr. Phil Tsao, overall/national co-PI of the MVP, I hold key administrative positions and coordinate the local genomics research program within the newly formed Precision Health Service at the Palo Alto VA. Concurrently, I teach general cardiology as well as echocardiography to medical students, residents, and cardiology fellows-in-training at the Stanford-affiliated Palo Alto VA Hospital.

ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Cardiovascular Medicine
- Associate Professor (By courtesy), Epidemiology and Population Health
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Clinical Lifelong Learning Committee, American Heart Association, (2020-2024)
- Director, Medical and Population Genomics for Precision Medicine, VA Palo Alto Health Care System, (2019- present)
- Program Committee, American Society of Human Genetics, (2019-2022)
- Associate Director, Palo Alto Epidemiology Research and Information Center for Genomics, Palo Alto VA Hospital, (2018- present)
- Steering Committee, Project Baseline, (2017- present)
- Leadership Committee, Council of Genomic and Precision Medicine, American Heart Association, (2016-2020)
- Membership and Communications Committee, Council of Epidemiology and Prevention, American Heart Organization, (2016-2020)
- Steering Commitee, CARDIoGRAMplusC4D (http://www.cardiogramplusc4d.org/), (2012- present)
- Co-chair, Women's Health Initiative Scientific Interest Group for Genetics, Proteomics & Biomarkers, (2010- present)
- Member, Ancillary Studies Committee, Women's Health Initiative, (2010- present)

HONORS AND AWARDS

- Elected member, American Society of Clinical Investigation (01/01/2020)
- Genomic and Precision Medicine and Epidemiology Mid-Career Research Award and Lecturer, American Heart Association (04/30/2019)
- 50+ Faces of Vanier College, Vanier College, Quebec, Canada (12/10/2018)
- Fellow of the American Heart Association (FAHA), council of Epidemiology and Prevention, American Heart Association (03/01/2016)
- Edwin L. Alderman award for excellence in Clinical Cardiovascular Research, Stanford University School of Medicine (2004, 2005)
- Fellow of the Royal College of Physicians of Canada, Royal College of Physicians and Surgeons of Canada (2000-2019)
- Chief Medical Resident, McGill University Medical Center - Royal Victoria Hospital (1999-2000)
- J.W. McConnell Scholarship, McGill Universtiy (1989-1994)

PROFESSIONAL EDUCATION

- MD, McGill University , Medicine (1994)
- Board Certified, American Board of Internal Medicine , Internal Medicine (not maintained beyond 2009) (1999)
- MS, McGill University , Epidemiology & Biostatistics (2001)
- Board Certified, American Board of Internal Medicine , Cardiovascular Medicine (2004)
- PhD, McGill University , Epidemiology & Biostatistics (2008)
- Testamur, National Board of Echocardiography , Adult Echocardiography (2022)

LINKS

- Linkedin: https://www.linkedin.com/in/tassimes/
- Twitter: https://twitter.com/tassimes
- Palo Alto ERIC for Genomics: https://www.vacsp.research.va.gov/CSP_Centers/Palo-Alto-ERIC-Genomics.asp
- My ABIM Board Certification: https://www.abim.org/verify-physician.aspx?type=id&id=188782
- My Google Scholar: https://scholar.google.com/citations?user=KnwE7qoAAAAJ&hl=en
- My PubMed Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/themistocles.assimes.1/bibliography/public/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our investigative focus is the design, conduct, analysis, and interpretation of human molecular epidemiology studies of complex cardiovascular disease (CVD) related traits. While we have focused on the study of coronary atherosclerosis, a condition that causes heart attacks, the number one cause of death worldwide, and risk factors for coronary atherosclerosis, we also examine many other traits related to cardiovascular disease. In addition to performing discovery and validation population genomic studies, we use contemporary genetic studies to gain important insight on the causal and mechanistic nature of associations between purported risk factors and adverse cardiovascular related health outcomes through instrumental variable analyses and genetic risk score association studies of intermediate phenotypes. Our group is also actively involved in studies assessing the clinical utility of novel genetic markers in isolation or in combination with other biomarkers. Lastly, we communicate the significance of genomic findings at the population level to molecular biologists who may lack a strong background in human genetics as well as human geneticists who lack a strong background in clinical medicine. Our group's broad translational knowledge base allows us to serve as a key collaborator in multidisciplinary investigative groups involved in the design and the interpretation of important functional experiments that will shed light on the biology behind these new genetic associations, as well as clinical trials the will help further delineate the utility of genomics in clinical practice.

If you are interested in working with us as a postdoctoral scholar, please check to see if we have any open positions at https://postdocs.stanford.edu/prospective/opportunities (search Assimes as last name). If you are interested in joining the team as a trainee in any other capacity, please do not hesitate to contact us as well.

CLINICAL TRIALS

- Personal Genomics for Preventive Cardiology, Not Recruiting

PROJECTS

- Genome-wide association study of coronary artery disease in individuals of African ancestry - Vanderbilt University Medical Center (9/17/2020 - 8/31/2021)
- Polygenic Risk Scores (PRS) for Diverse Populations - Bridging Research and Clinical Care - Fred Hutchison Cancer Research Center (8/1/2020 - 7/31/2024)
- New methods for constructing and evaluating polygenic scores - Stanford University School of Medicine (9/14/2020 - 6/30/2024)
- Whole-genome sequencing analysis of coronary atherosclerosis and related traits - University of Texas Health Science Center Houston, Houston, TX, United States (3/17/2020 - 2/28/2025)
- Genetics of Cardiometabolic Diseases in the VA Population - Veterans Health Administration (1/1/2017 - 9/30/2023)
- Efficient electronic phenotyping using APHRODITE in the Million Veteran Program - Palo Alto VA Health Care System (8/1/2019 - 7/31/2021)
- Using census data linkages to study long-term impacts on disparities in DNA methylation - Stanford University School of Medicine (9/14/2018 - 9/13/2020)
- Integrative multi-omics in whole genome studies of HLBS disorders - Stanford University School of Medicine (5/1/2018 - 4/30/2020)
- Proteomic Determinants of direct measures of insulin sensitivity - Stanford University School of Medicine (4/1/2018 - 3/31/2023)
- Whole Genome Sequence Analysis of Ischemic Stroke in the Women’s Health Initiative - Fred Hutchinson Cancer Research Center (4/5/2017 - 1/31/2021)
- The Baseline Study - Stanford University School of Medicine (6/1/2016 - present)
- Causal associations of circulating biomarkers with cardiovascular disease - Stanford University School of Medicine (2/1/2017 - 1/31/2020)

- The Epigenetics Leads To Age-Related Diseases (Gilga-Mesh) Network - University of California Los Angeles (10/1/2015 - 3/31/2018)
- Coronary Artery Disease Genetics in Large Sample of Taiwan Chinese - Harbor-UCLA Medical Center (10/1/2015 - 3/31/2018)
- Women's Health Initiative - Regional Centers 2015-2020 - Stanford University School of Medicine (10/15/2015 - 10/14/2020)
- A pilot RNA-seq study among Long Life Study participants of the WHI - Stanford University School of Medicine (3/1/2015 - 8/31/2015)
- Determinants of Insulin mediated glucose update in South Asians - Stanford University School of Medicine (4/1/2011 - 1/31/2015)
- Utility of the Aviir risk score in predicting incident coronary heart disease in the WHI - Stanford University School of Medicine (8/1/2011 - 7/31/2013)
- A randomized trial of personal genomics for preventive cardiology - Stanford Research Pilot Grant, Innovation Awards in Population Medicine (5/1/2011 - 4/30/2012)
- Integrative genomics and risk of CHD and related phenotypes in the Women's Health Initiative - Stanford University School of Medicine (3/29/2013 - 3/28/2016)
- Whole Genome Association for Early Coronary Artery Disease and Related Phenotypes - Stanford University School of Medicine / Kaiser Permanente DOR (10/1/2006 - 7/31/2010)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Ming Li Chen, Pik Fang Kho, Disha Sharma, Jiayan Zhou

Postdoctoral Research Mentor

Alexa Barad Zayat, Daniel Panyard

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)
- Epidemiology (Masters Program)
- Genetics (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Rare variant contribution to the heritability of coronary artery disease.** *Nature communications*
  Rocheleau, G., Clarke, S. L., Auguste, G., Hasbani, N. R., Morrison, A. C., Heath, A. S., Bielak, L. F., Iyer, K. R., Young, E. P., Stitziel, N. O., Jun, G., Laurie, C., Broome, et al
  2024; 15 (1): 8741

- **Plasma proteomics and carotid intima-media thickness in the UK biobank cohort.** *Frontiers in cardiovascular medicine*
  Chen, M. L., Kho, P. F., Guarischi-Sousa, R., Zhou, J., Panyard, D. J., Azizi, Z., Gupte, T., Watson, K., Abbasi, F., Assimes, T. L.
  2024; 11: 1478600

- **Exome wide association study for blood lipids in 1,158,017 individuals from diverse populations.** *medRxiv : the preprint server for health sciences*
  Koyama, S., Yu, Z., Choi, S. H., Jurgens, S. J., Selvaraj, M. S., Klarin, D., Huffman, J. E., Clarke, S. L., Trinh, M. N., Ravi, A., Dron, J. S., Spinks, C., Surakka, et al
  2024

- **A plasma proteomic signature for atherosclerotic cardiovascular disease risk prediction in the UK Biobank cohort.** *medRxiv : the preprint server for health sciences*
  Gupte, T. P., Azizi, Z., Kho, P. F., Zhou, J., Chen, M., Panyard, D. J., Guarischi-Sousa, R., Hilliard, A. T., Sharma, D., Watson, K., Abbasi, F., Tsao, P. S., Clarke, et al
  2024

- **Plasma proteomic signatures for type 2 diabetes mellitus and related traits in the UK Biobank cohort.** *medRxiv : the preprint server for health sciences*

Gupte, T. P., Azizi, Z., Kho, P. F., Zhou, J., Nzenkue, K., Chen, M., Panyard, D. J., Guarischi-Sousa, R., Hilliard, A. T., Sharma, D., Watson, K., Abbasi, F., Tsao, et al

2024

- **Associations between accurate measures of adiposity and fitness, blood proteins, and insulin sensitivity among South Asians and Europeans.** *medRxiv : the preprint server for health sciences*

  Kho, P. F., Stell, L., Jimenez, S., Zanetti, D., Panyard, D. J., Watson, K. L., Sarraju, A., Chen, M. L., Lind, L., Petrie, J. R., Chan, K. N., Fonda, H., Kent, et al

  2024

- **A functional genomic framework to elucidate novel causal metabolic dysfunction-associated fatty liver disease genes.** *Hepatology (Baltimore, Md.)*

  Saliba-Gustafsson, P., Justesen, J. M., Ranta, A., Sharma, D., Bielczyk-Maczynska, E., Li, J., Najmi, L. A., Apodaka, M., Aspichueta, P., Björck, H. M., Eriksson, P., Schurr, T. M., Franco-Cereceda, et al

  2024

- **Genetically predicted lipoprotein(a) associates with coronary artery plaque severity independent of low-density lipoprotein cholesterol.** *European journal of preventive cardiology*

  Clarke, S. L., Huang, R. D., Hilliard, A. T., Levin, M. G., Sharma, D., Thomson, B., Lynch, J., Tsao, P. S., Gaziano, J. M., Assimes, T. L.

  2024

- **Diversity and scale: Genetic architecture of 2068 traits in the VA Million Veteran Program.** *Science (New York, N.Y.)*

  Verma, A., Huffman, J. E., Rodriguez, A., Conery, M., Liu, M., Ho, Y. L., Kim, Y., Heise, D. A., Guare, L., Panickan, V. A., Garcon, H., Linares, F., Costa, et al

  2024; 385 (6706): eadj1182

- **Digital Footprints of Obesity Treatment: GLP-1 Receptor Agonists and the Health Equity Divide.** *Circulation*

  Azizi, Z., Rodriguez, F., Assimes, T. L.

  2024; 150 (3): 171-173

- **Increased BMI associated with decreased breastfeeding initiation in Million Veteran Program participants.** *medRxiv : the preprint server for health sciences*

  Lankester, J., Guarischi-Sousa, R., Hilliard, A. T., VA Million Veteran Program, Shere, L., Husary, M., Crowe, S., Tsao, P. S., Rehkopf, D. H., Assimes, T. L.

  2024

- **Mendelian randomization analyses clarify the effects of height on cardiovascular diseases.** *PloS one*

  Hui, D., Sanford, E., Lorenz, K., Damrauer, S. M., Assimes, T. L., Thom, C. S., Voight, B. F.

  2024; 19 (7): e0298786

- **Design and Pilot Results from Million Veteran Program Return Of Actionable Genetic Results (MVP-ROAR) Study.** *American heart journal*

  Vassy, J. L., Brunette, C. A., Yi, T., Harrison, A., Cardellino, M. P., Assimes, T. L., Christensen, K. D., Devineni, P., Gaziano, J. M., Gong, X., Hui, Q., Knowles, J. W., Muralidhar, et al

  2024

- **Identifying therapeutic targets for cancer among 2074 circulating proteins and risk of nine cancers.** *Nature communications*

  Smith-Byrne, K., Hedman, Å., Dimitriou, M., Desai, T., Sokolov, A. V., Schioth, H. B., Koprulu, M., Pietzner, M., Langenberg, C., Atkins, J., Penha, R. C., McKay, J., Brennan, et al

  2024; 15 (1): 3621

- **PLASMA PROTEOMICS AND VISCERAL ADIPOSE TISSUE VOLUME: A MACHINE LEARNING ANALYSIS OF INTERACTION BETWEEN BIOMARKERS, SOCIO-BEHAVIORAL, AND FITNESS FACTORS IN UK BIOBANK**

  Azizi, Z., Gupte, T., Kho, P., Nzenkue, K., Zhou, J., Guarischi-Sousa, R., Panyard, D., Chen, M., Abbasi, F., Clarke, S., Tsao, P., Assimes, T. L.

  ELSEVIER SCIENCE INC.2024: 1699

- **Development and utility of a clinical research informatics application for participant recruitment and workflow management for a return of results pilot trial in familial hypercholesterolemia in the Million Veteran Program.** *JAMIA open*

  Brunette, C. A., Yi, T., Danowski, M. E., Cardellino, M., Harrison, A., Assimes, T. L., Knowles, J. W., Christensen, K. D., Sturm, A. C., Sun, Y. V., Hui, Q., Pyarajan, S., Shi, et al

  2024; 7 (1): ooae020

- **Multi-Ancestry Polygenic Risk Score for Coronary Heart Disease Based on an Ancestrally Diverse Genome-Wide Association Study and Population-Specific Optimization.** *Circulation. Genomic and precision medicine*

  Smith, J. L., Tcheandjieu, C., Dikilitas, O., Iyer, K., Miyazawa, K., Hilliard, A., Lynch, J., Rotter, J. I., Chen, Y. I., Sheu, W. H., Chang, K. M., Kanoni, S., Tsao, et al

  2024: e004272

- **A functional genomic framework to elucidate novel causal non-alcoholic fatty liver disease genes.** *medRxiv : the preprint server for health sciences*
  Saliba-Gustafsson, P., Justesen, J. M., Ranta, A., Sharma, D., Bielczyk-Maczynska, E., Li, J., Najmi, L. A., Apodaka, M., Aspichueta, P., Björck, H. M., Eriksson, P., Franco-Cereceda, A., Gloudemans, et al
  2024

- **Diet Quality and Epigenetic Aging in the Women's Health Initiative.** *Journal of the Academy of Nutrition and Dietetics*
  Reynolds, L. M., Houston, D. K., Skiba, M. B., Whitsel, E. A., Stewart, J. D., Li, Y., Zannas, A. S., Assimes, T. L., Horvath, S., Bhatti, P., Baccarelli, A. A., Tooze, J. A., Vitolins, et al
  2024

- **Cardiorespiratory Fitness and Risk of Heart Failure with Preserved Ejection Fraction.** *European journal of heart failure*
  Kokkinos, P., Faselis, C., Pittaras, A., Samuel, I. B., Lavie, C. J., Vargas, J. D., Lamonte, M., Franklin, B., Assimes, T. L., Murphy, R., Zhang, J., Sui, X., Myers, et al
  2023

- **Mendelian randomization analyses suggest a causal role for circulating GIP and IL-1RA levels in homeostatic model assessment-derived measures of #-cell function and insulin sensitivity in Africans without type 2 diabetes.** *Genome medicine*
  Meeks, K. A., Bentley, A. R., Assimes, T. L., Franceschini, N., Adeyemo, A. A., Rotimi, C. N., Doumatey, A. P.
  2023; 15 (1): 108

- **Whole-genome sequencing uncovers two loci for coronary artery calcification and identifies ARSE as a regulator of vascular calcification** *NATURE CARDIOVASCULAR RESEARCH*
  de Vries, P. S., Conomos, M. P., Singh, K., Nicholson, C. J., Jain, D., Hasbani, N. R., Jiang, W., Lee, S., Lino Cardenas, C. L., Lutz, S. M., Wong, D., Guo, X., Yao, et al
  2023; 2 (12): 1159-+

- **Whole-genome sequencing uncovers two loci for coronary artery calcification and identifies ARSE as a regulator of vascular calcification.** *Nature cardiovascular research*
  de Vries, P. S., Conomos, M. P., Singh, K., Nicholson, C. J., Jain, D., Hasbani, N. R., Jiang, W., Lee, S., Cardenas, C. L., Lutz, S. M., Wong, D., Guo, X., Yao, et al
  2023; 2 (12): 1159-1172

- **Plasma Protein Profiling of Incident Cardiovascular Diseases: A Multisample Evaluation.** *Circulation. Genomic and precision medicine*
  Lind, L., Titova, O., Zeng, R., Zanetti, D., Ingelsson, M., Gustafsson, S., Sundström, J., Ärnlöv, J., Elmståhl, S., Assimes, T., Michaëlsson, K.
  2023: e004233

- **C-X-C Motif Chemokine Ligand 12 is a Primary Determinant of Coronary Artery Dominance**
  Rios, P., Zanetti, D., Hilliard, A., Naftaly, J., Prabala, P., Kho, P., Chang, K., Plomondon, M. E., Waldo, S., Tsao, P. S., VA Million Veteran Program
  LIPPINCOTT WILLIAMS & WILKINS.2023

- **CXCL12 regulates coronary artery dominance in diverse populations and links development to disease.** *medRxiv : the preprint server for health sciences*
  Rios Coronado, P. E., Zanetti, D., Zhou, J., Naftaly, J. A., Prabala, P., Kho, P. F., Martínez Jaimes, A. M., Hilliard, A. T., Pyarajan, S., Dochtermann, D., Chang, K. M., Winn, V. D., Pa#ca, et al
  2023

- **CYP2C19 Polymorphisms and Clinical Outcomes Following Percutaneous Coronary Intervention (PCI) in the Million Veterans Program.** *medRxiv : the preprint server for health sciences*
  Chanfreau-Coffinier, C., Friede, K. A., Plomondon, M. E., Lee, K. M., Lu, Z., Lynch, J. A., DuVall, S. L., Vassy, J. L., Waldo, S. W., Cleator, J. H., Maddox, T. M., Rader, D. J., Assimes, et al
  2023

- **Multi-ancestry genome-wide study identifies effector genes and druggable pathways for coronary artery calcification.** *Nature genetics*
  Kavousi, M., Bos, M. M., Barnes, H. J., Cardenas, C. L., Wong, D., Lu, H., Hodonsky, C. J., Landsmeer, L. P., Turner, A. W., Kho, M., Hasbani, N. R., de Vries, P. S., Bowden, et al
  2023

- **Assessing efficiency of fine-mapping obesity-associated variants through leveraging ancestry architecture and functional annotation using PAGE and UKBB cohorts.** *Human genetics*
  Anwar, M. Y., Graff, M., Highland, H. M., Smit, R., Wang, Z., Buchanan, V. L., Young, K. L., Kenny, E. E., Fernandez-Rhodes, L., Liu, S., Assimes, T., Garcia, D. O., Daeeun, et al
  2023

- **Carriers of rare damaging CCR2 genetic variants are at lower risk of atherosclerotic disease.** *medRxiv : the preprint server for health sciences*
  Georgakis, M. K., Malik, R., Hasbani, N. R., Shakt, G., Morrison, A. C., Tsao, N. L., Judy, R., Mitchell, B. D., Xu, H., Montasser, M. E., Do, R., Kenny, E. E., Loos, et al
  2023

- **Proteomic analysis of 92 circulating proteins and their effects in cardiometabolic diseases.** *Clinical proteomics*
  Carland, C., Png, G., Malarstig, A., Kho, P. F., Gustafsson, S., Michaelsson, K., Lind, L., Tsafantakis, E., Karaleftheri, M., Dedoussis, G., Ramisch, A., Macdonald-Dunlop, E., Klaric, et al
  2023; 20 (1): 31

- **Genetic insights into resting heart rate and its role in cardiovascular disease.** *Nature communications*
  van de Vegte, Y. J., Eppinga, R. N., van der Ende, M. Y., Hagemeijer, Y. P., Mahendran, Y., Salfati, E., Smith, A. V., Tan, V. Y., Arking, D. E., Ntalla, I., Appel, E. V., Schurmann, C., Brody, et al
  2023; 14 (1): 4646

- **Systems Age: A single blood methylation test to quantify aging heterogeneity across 11 physiological systems.** *bioRxiv : the preprint server for biology*
  Sehgal, R., Meer, M., Shadyab, A. H., Casanova, R., Manson, J. E., Bhatti, P., Crimmins, E. M., Assimes, T. L., Whitsel, E. A., Higgins-Chen, A. T., Levine, M.
  2023

- **A multi-ancestry polygenic risk score improves risk prediction for coronary artery disease.** *Nature medicine*
  Patel, A. P., Wang, M., Ruan, Y., Koyama, S., Clarke, S. L., Yang, X., Tcheandjieu, C., Agrawal, S., Fahed, A. C., Ellinor, P. T., Genes & Health Research Team; the Million Veteran Program, Tsao, P. S., Sun, Y. V., et al
  2023

- **Contemporary Polygenic Scores of Low-Density Lipoprotein Cholesterol and Coronary Artery Disease Predict Coronary Atherosclerosis in Adolescents and Young Adults.** *Circulation. Genomic and precision medicine*
  Guarischi-Sousa, R., Salfati, E., Kho, P. F., Iyer, K. R., Hilliard, A. T., Herrington, D. M., Tsao, P. S., Clarke, S. L., Assimes, T. L.
  2023: e004047

- **Diversity and Scale: Genetic Architecture of 2,068 Traits in the VA Million Veteran Program.** *medRxiv : the preprint server for health sciences*
  Verma, A., Huffman, J. E., Rodriguez, A., Conery, M., Liu, M., Ho, Y. L., Kim, Y., Heise, D. A., Guare, L., Panickan, V. A., Garcon, H., Linares, F., Costa, et al
  2023

- **Plasma proteomic signatures of a direct measure of insulin sensitivity in two population cohorts.** *Diabetologia*
  Zanetti, D., Stell, L., Gustafsson, S., Abbasi, F., Tsao, P. S., Knowles, J. W., Zethelius, B., Ärnlöv, J., Balkau, B., Walker, M., Lazzeroni, L. C., Lind, L., Petrie, et al
  2023

- **A Multi-Ancestry Polygenic Risk Score for Coronary Heart Disease Based on an Ancestrally Diverse Genome-Wide Association Study and Population-Specific Optimization.** *medRxiv : the preprint server for health sciences*
  Smith, J. L., Tcheandjieu, C., Dikilitas, O., Lyer, K., Miyazawa, K., Hilliard, A., Lynch, J., Rotter, J. I., Chen, Y. I., Sheu, W. H., Chang, K. M., Kanoni, S., Tsao, et al
  2023

- **Mendelian randomization analyses clarify the effects of height on cardiovascular diseases.** *medRxiv : the preprint server for health sciences*
  Hui, D., Sanford, E., Lorenz, K., Damrauer, S. M., Assimes, T. L., Thom, C. S., Voight, B. F.
  2023

- **Cardiovascular Disease Risk Assessment Using Traditional Risk Factors and Polygenic Risk Scores in the Million Veteran Program.** *JAMA cardiology*
  Vassy, J. L., Posner, D. C., Ho, Y., Gagnon, D. R., Galloway, A., Tanukonda, V., Houghton, S. C., Madduri, R. K., McMahon, B. H., Tsao, P. S., Damrauer, S. M., O'Donnell, C. J., Assimes, et al
  2023

- **Genetics Of Physical Activity And Risk Of Cardiovascular Disease**
  Biagetti, G., Depaolo, J., Shakt, G., Angueria, A., Judy, R., Huffman, J. E., Tcheandjieu, C., Assimes, T. L., Klarin, D., Voight, B. F., Vujkovic, M., Tsao, P. S., Chang, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023

- **Circulating lipoprotein lipids and colorectal cancer risk: A Mendelian randomization analysis from the GECCO consortium**
  Liu, L., Wen, W., Long, J., Assimes, T. L., Bujanda, L., Gruber, S. B., Kury, S., Lynch, B., Qu, C., Thomas, M., White, E., Woods, M. O., Peters, et al
  AMER ASSOC CANCER RESEARCH.2023

- **Cardiovascular Disease and Mortality in Black Women Carrying the Amyloidogenic V122I Transthyretin Gene Variant.** *JACC. Heart failure*
  Haring, B., Hunt, R. P., Shadyab, A. H., Eaton, C., Kaplan, R., Martin, L. W., Panjrath, G., Kuller, L. H., Assimes, T., Kooperberg, C., Wassertheil-Smoller, S.
  2023
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