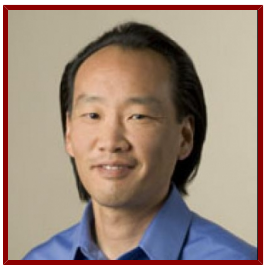
Stanford



Philip S. Tsao, PhD

Professor (Research) of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

Bio

ACADEMIC APPOINTMENTS

- Professor (Research), Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Executive Committee, Stanford Cardiovascular Institute, (2010- present)
- Member, Stanford Diabetes Research Center, (2018- present)
- Co-Director, Cardiovascular Pulmonary Sciences Application, (2005-2018)

HONORS AND AWARDS

- Department of Medicine Teaching Award, Stanford (2003)
- Fellow, Arteriosclerosis, Thrombosis, and Vascular Biology Council of the American Heart Association (2003)
- Established Investigator Award, American Heart Association (2008)

PROFESSIONAL EDUCATION

- PhD, Thomas Jefferson University , Cardiovascular Physiology (1991)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our primary interests are in understanding the molecular underpinnings of vascular disease as well as assessing disease risk. We use a wide range of biochemical, molecular and physiological techniques to make primary observations in cell systems as well as preclinical models. Furthermore, we continue to extend our findings to human subjects in order to confirm their clinical applicability. Current research projects include:

Mechanisms regulating atherosclerosis and abdominal aortic aneurysm disease: While single genes can have dramatic effects in cellular biology, it is becoming increasingly clear that vascular disease (and health) is regulated by the coordinated expression of gene cassettes or pathways. By monitoring expression patterns of the entire genome simultaneously, we can begin to identify networks of genes that work in concert to affect disease progression. Moreover, this approach can often

implicate specific nexus genes that are at the center of larger networks and/or participate in multiple pathways. Additionally, we are investigating the role microRNAs, a newly discovered class of small RNA molecues, in orchestrating the activity of multiple genes during the course of disease.

Role of insulin resistance: Reduced activity of the endogenous hormone, insulin, is now recognized as a cardinal feature of type 2 diabetes and an independent risk factor for cardiovascular disease. We have investigated the effects of insulin resistance in several tissues and have recently focused our attention on adipose tissue biology and how it relates to CVD. Long known as a storage vehicle for excess calories, the fat cell is now recognized to be a factory of different products that can not only affect local activity, but can circulate in the blood as hormones and regulate many biological processes. For example, we have recently reported that the novel hormone, apelin, is produced by fat tissue and has important effects upon insulin resistance, obesity and diabetes, all of which have significant implications for cardiovascular disease.

Biomarkers for risk assessment: In addition to target identification, we are applying transcriptional profiling and pathway analysis for another important aspect of cardiovascular disease management--biomarker discovery. As the name connotes, a biomarker should be a good indication of the disease state and thereby allow for early detection as well as monitoring disease progression and, hopefully, efficacy of an applied therapy. Biomarkers can encompass a wide range of molecules including DNA variants, RNA, proteins, as well as lipids. They can even encompass modalities such as molecular imaging. We are engaged in not only identifying novel biomarkers for cardiovascular disease, but also in producing algorithms that combine multiple biomarkers to optimally assess risk.

CLINICAL TRIALS

- Effects of Dietary Antioxidants on Cardiovascular Risk Factors, Not Recruiting
- Effects of Glutathione (an Antioxidant) and N-Acetylcysteine on Inflammation, Not Recruiting
- Effects of Omega-3 Fatty Acids on Markers of Inflammation, Not Recruiting
- Exercise Therapy to Treat Adults With Abdominal Aortic Aneurysms, Not Recruiting
- Permission to Collect Blood Over Time for Research, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Maryam Amirahmadi, Colwyn Headley, Yae Hyun Rhee

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Medicine (Masters Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target** *NATURE GENETICS*
  Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al
  2023

- **Genome-wide association meta-analysis identifies risk loci for abdominal aortic aneurysm and highlights PCSK9 as a therapeutic target.** *Nature genetics*

Roychowdhury, T., Klarin, D., Levin, M. G., Spin, J. M., Rhee, Y. H., Deng, A., Headley, C. A., Tsao, N. L., Gellatly, C., Zuber, V., Shen, F., Hornsby, W. E., Laursen, et al

2023

- **E-cigarette exposure augments murine abdominal aortic aneurysm development: role of Chil1.** *Cardiovascular research*

  Mulorz, J., Spin, J. M., Mulorz, P., Wagenhauser, M., Deng, A., Mattern, K., Rhee, Y. H., Toyama, K., Adam, M., Schelzig, H., Maegdefessel, L., Tsao, P. S.

  2022

- **The power of genetic diversity in genome-wide association studies of lipids.** *Nature*

  Graham, S. E., Clarke, S. L., Wu, K. H., Kanoni, S., Zajac, G. J., Ramdas, S., Surakka, I., Ntalla, I., Vedantam, S., Winkler, T. W., Locke, A. E., Marouli, E., Hwang, et al

  2021

- **Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program.** *Circulation*

  Klarin, D. n., Verma, S. S., Judy, R. n., Dikilitas, O. n., Wolford, B. N., Paranjpe, I. n., Levin, M. G., Pan, C. n., Tcheandjieu, C. n., Spin, J. M., Lynch, J. n., Assimes, T. L., Nyrønning, et al

  2020

- **Genome-wide association study of peripheral artery disease in the Million Veteran Program.** *Nature medicine*

  Klarin, D., Lynch, J., Aragam, K., Chaffin, M., Assimes, T. L., Huang, J., Lee, K. M., Shao, Q., Huffman, J. E., Natarajan, P., Arya, S., Small, A., Sun, et al

  2019

- **Decoding the Genomics of Abdominal Aortic Aneurysm.** *Cell*

  Li, J., Pan, C., Zhang, S., Spin, J. M., Deng, A., Leung, L. L., Dalman, R. L., Tsao, P. S., Snyder, M.

  2018; 174 (6): 1361

- **Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development** *CIRCULATION*

  Raaz, U., Zoellner, A. M., Schellinger, I. N., Toh, R., Nakagami, F., Brandt, M., Emrich, F. C., Kayama, Y., Eken, S., Adam, M., Maegdefessel, L., Hertel, T., Deng, et al

  2015; 131 (20): 1783-1795

- **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development** *NATURE COMMUNICATIONS*

  Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nagakami, F., Heymann, H. M., Chernugobova, E., Jin, H., Roy, J., Hultgren, et al

  2014; 5

- **Pathogenesis of Abdominal Aortic Aneurysms: MicroRNAs, Proteases, Genetic Associations.** *Annual review of medicine*

  Maegdefessel, L., Dalman, R. L., Tsao, P. S.

  2014; 65: 49-62

- **MicroRNA-21 Blocks Abdominal Aortic Aneurysm Development and Nicotine-Augmented Expansion** *SCIENCE TRANSLATIONAL MEDICINE*

  Maegdefessel, L., Azuma, J., Toh, R., Deng, A., Merk, D. R., Raiesdana, A., Leeper, N. J., Raaz, U., Schoelmerich, A. M., McConnell, M. V., Dalman, R. L., Spin, J. M., Tsao, et al

  2012; 4 (122)

- **Inhibition of microRNA-29b reduces murine abdominal aortic aneurysm development** *JOURNAL OF CLINICAL INVESTIGATION*

  Maegdefessel, L., Azuma, J., Toh, R., Merk, D. R., Deng, A., Chin, J. T., Raaz, U., Schoelmerich, A. M., Raiesdana, A., Leeper, N. J., McConnell, M. V., Dalman, R. L., Spin, et al

  2012; 122 (2): 497-506

- **Type 1 Diabetes Genetic Risk in 109,954 Veterans With Adult-Onset Diabetes: The Million Veteran Program (MVP).** *Diabetes care*

  Yang, P. K., Jackson, S. L., Charest, B. R., Cheng, Y. J., Sun, Y. V., Raghavan, S., Litkowski, E. M., Legvold, B. T., Rhee, M. K., Oram, R. A., Kuklina, E. V., Vujkovic, M., Reaven, et al

  2024

- **Evaluation of Plasma Biomarkers for Causal Association With Peripheral Artery Disease.** *Arteriosclerosis, thrombosis, and vascular biology*

  Sharma, P., Klarin, D., Voight, B. F., Tsao, P. S., Levin, M. G., Damrauer, S. M.

  2024

- **Genetic drivers of heterogeneity in type 2 diabetes pathophysiology.** *Nature*

Suzuki, K., Hatzikotoulas, K., Southam, L., Taylor, H. J., Yin, X., Lorenz, K. M., Mandla, R., Huerta-Chagoya, A., Melloni, G. E., Kanoni, S., Rayner, N. W., Bocher, O., Arruda, et al

2024

- **Mitochondrial Transplantation promotes protective effector and memory CD4+ T cell response during Mycobacterium tuberculosis infection and diminishes exhaustion and senescence in elderly CD4+ T cells.** *bioRxiv : the preprint server for biology*

  Headley, C. A., Gautam, S., Olmo-Fontanez, A., Garcia-Vilanova, A., Dwivedi, V., Schami, A., Weintraub, S., Tsao, P. S., Torrelles, J. B., Turner, J.

  2024

- **Can Metformin reduce AAA risk? A Mendelian randomisation study**

  Saxby, K., Dudbridge, F., Roychowdhury, T., Klarin, D., Jones, G., Tsao, P., Damrauer, S., Bown, M., Nelson, C.

  SPRINGERNATURE.2024: 416

- **Investigation of genomic and transcriptomic risk factors in clopidogrel response in African Americans.** *medRxiv : the preprint server for health sciences*

  Yang, G., Alarcon, C., Chanfreau, C., Lee, N. H., Friedman, P., Nutescu, E., Tuck, M., O'Brien, T., Gong, L., Klein, T. E., Chang, K. M., Tsao, P. S., Meltzer, et al

  2023

- **Profiling the genome and proteome of metabolic dysfunction-associated steatotic liver disease identifies potential therapeutic targets.** *medRxiv : the preprint server for health sciences*

  Liu, J., Hu, S., Chen, L., Daly, C., Prada Medina, C. A., Richardson, T. G., Traylor, M., Dempster, N. J., Mbasu, R., Monfeuga, T., Vujkovic, M., Tsao, P. S., Lynch, et al

  2023

- **Extracellular Delivery of Functional Mitochondria Rescues the Dysfunction of CD4+T Cells in Aging.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*

  Headley, C. A., Gautam, S., Olmo-Fontanez, A., Garcia-Vilanova, A., Dwivedi, V., Akhter, A., Schami, A., Chiem, K., Ault, R., Zhang, H., Cai, H., Whigham, A., Delgado, et al

  2023: e2303664

- **Crosstalk of platelets with macrophages and fibroblasts aggravates inflammation, aortic wall stiffening, and osteopontin release in abdominal aortic aneurysm** *CARDIOVASCULAR RESEARCH*

  Wagenhaeuser, M. U., Mulorz, J., Krott, K. J., Bosbach, A., Feige, T., Rhee, Y. H., Chatterjee, M., Petzold, N., Boeddeker, C., Ibing, W., Krueger, I., Popovic, A. M., Roseman, et al

  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

- **Genetic Inhibition of APOL1 Pore-Forming Function Prevents APOL1-Mediated Kidney Disease.** *Journal of the American Society of Nephrology : JASN*

  Hung, A. M., Assimon, V. A., Chen, H., Yu, Z., Vlasschaert, C., Triozzi, J. L., Chan, H., Wheless, L., Wilson, O., Shah, S. C., Mack, T., Thompson, T., Matheny, et al

  2023

- **Admixture mapping of peripheral artery disease in a Dominican population reveals a putative risk locus on 2q35.** *Frontiers in genetics*

  Cullina, S., Wojcik, G. L., Shemirani, R., Klarin, D., Gorman, B. R., Sorokin, E. P., Gignoux, C. R., Belbin, G. M., Pyarajan, S., Asgari, S., Tsao, P. S., Damrauer, S. M., Abul-Husn, et al

  2023; 14: 1181167

- **Serum microRNA-501-3p is a potential diagnostic tool for detecting mild cognitive impairment: Ehime genome study.** *Journal of neurochemistry*

  Toyama, K., Spin, J. M., Tsao, P. S., Maruyama, K., Osawa, H., Mogi, M., Takata, Y.

  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

- **Autoimmune alleles at the major histocompatibility locus modify melanoma susceptibility.** *American journal of human genetics*

  Talwar, J. V., Laub, D., Pagadala, M. S., Castro, A., Lewis, M., Luebeck, G. E., Gorman, B. R., Pan, C., Dong, F. N., Markianos, K., Teerlink, C. C., Lynch, J., Hauger, et al

  2023

- **Genome-wide association study of thoracic aortic aneurysm and dissection in the Million Veteran Program.** *Nature genetics*

  Klarin, D., Devineni, P., Sendamarai, A. K., Angueira, A. R., Graham, S. E., Shen, Y. H., Levin, M. G., Pirruccello, J. P., Surakka, I., Karnam, P. R., Roychowdhury, T., Li, Y., Wang, et al

  2023

- **Genome-Wide Association Study of CKD Progression.** *Journal of the American Society of Nephrology : JASN*

  Robinson-Cohen, C., Triozzi, J. L., Rowan, B., He, J., Chen, H. C., Zheng, N. S., Wei, W. Q., Wilson, O. D., Hellwege, J. N., Tsao, P. S., Gaziano, J. M., Bick, A., Matheny, et al

  2023

- **Author Correction: The power of genetic diversity in genome-wide association studies of lipids.** *Nature*

  Graham, S. E., Clarke, S. L., Wu, K. H., Kanoni, S., Zajac, G. J., Ramdas, S., Surakka, I., Ntalla, I., Vedantam, S., Winkler, T. W., Locke, A. E., Marouli, E., Hwang, et al

  2023

- **Genetically proxied glucose-lowering drug target perturbation and risk of cancer: a Mendelian randomisation analysis.** *Diabetologia*

  Yarmolinsky, J., Bouras, E., Constantinescu, A., Burrows, K., Bull, C. J., Vincent, E. E., Martin, R. M., Dimopoulou, O., Lewis, S. J., Moreno, V., Vujkovic, M., Chang, K. M., Voight, et al

  2023

- **Building the case for mitochondrial transplantation as an anti-aging cardiovascular therapy.** *Frontiers in cardiovascular medicine*

  Headley, C. A., Tsao, P. S.

  2023; 10: 1141124

- **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

- **Multi-ancestry genome-wide study in >2.5 million individuals reveals heterogeneity in mechanistic pathways of type 2 diabetes and complications.** *medRxiv : the preprint server for health sciences*

  Suzuki, K., Hatzikotoulas, K., Southam, L., Taylor, H. J., Yin, X., Lorenz, K. M., Mandla, R., Huerta-Chagoya, A., Rayner, N. W., Bocher, O., Arruda, A. n., Sonehara, K., Namba, et al

  2023

- **Genetics of varicose veins reveals polygenic architecture and genetic overlap with arterial and venous disease** *NATURE CARDIOVASCULAR RESEARCH*

  Levin, M. G., Huffman, J. E., Verma, A., Sullivan, K. A., Rodriguez, A. A., Kainer, D., Garvin, M. R., Lane, M., Cashman, M., Miller, J., Won, H., Li, B., Luo, et al

2023; 2 (1): 44-+

- **IS IT POSSIBLE TO ACCELERATE SENESCENCE IN THE VASCULAR ENDOTHELIAL CELL BY MODULATING SEVERAL MICRORNAS?**
  Toyama, K., Spin, J. M., Tsao, P. S., Mogi, M.
  LIPPINCOTT WILLIAMS & WILKINS.2023: E171

- **Overview of Efforts to Increase Women Enrollment in the Veterans Affairs Million Veteran Program.** *Health equity*
  Whitbourne, S. B., Li, Y., Brewer, J. V., Deen, J., Gutierrez, C., Murphy, S. A., Lord, E., Yan, J., Nguyen, X. T., Tsao, P. S., Gaziano, J. M., Muralidhar, S.
  2023; 7 (1): 324-332

- **Genomics and phenomics of body mass index reveals a complex disease network.** *Nature communications*
  Huang, J., Huffman, J. E., Huang, Y., Do Valle, Í., Assimes, T. L., Raghavan, S., Voight, B. F., Liu, C., Barabási, A. L., Huang, R. D., Hui, Q., Nguyen, X. T., Ho, et al
  2022; 13 (1): 7973

- **Implicating genes, pleiotropy, and sexual dimorphism at blood lipid loci through multi-ancestry meta-analysis.** *Genome biology*
  Kanoni, S., Graham, S. E., Wang, Y., Surakka, I., Ramdas, S., Zhu, X., Clarke, S. L., Bhatti, K. F., Vedantam, S., Winkler, T. W., Locke, A. E., Marouli, E., Zajac, et al
  2022; 23 (1): 268

- **Linking single nucleotide polymorphisms to signaling blueprints in abdominal aortic aneurysms.** *Scientific reports*
  Lim, C., Pratama, M. Y., Rivera, C., Silvestro, M., Tsao, P. S., Maegdefessel, L., Gallagher, K. A., Maldonado, T., Ramkhelawon, B.
  2022; 12 (1): 20990

- **Fibromuscular Dysplasia and Abdominal Aortic Aneurysms Are Dimorphic Sex-Specific Diseases With Shared Complex Genetic Architecture.** *Circulation. Genomic and precision medicine*
  Katz, A. E., Yang, M., Levin, M. G., Tcheandjieu, C., Mathis, M., Hunker, K., Blackburn, S., Eliason, J. L., Coleman, D. M., Fendrikova-Mahlay, N., Gornik, H. L., Karmakar, M., Hill, et al
  2022: e003496

- **Mild-to-Moderate Kidney Dysfunction and Cardiovascular Disease: Observational and Mendelian Randomization Analyses.** *Circulation*
  Gaziano, L., Sun, L., Arnold, M., Bell, S., Cho, K., Kaptoge, S. K., Song, R. J., Burgess, S., Posner, D. C., Mosconi, K., Robinson-Cohen, C., Mason, A., Bolton, et al
  2022

- **A GENOTYPE-FIRST APPROACH TO DEFINING THE HEPATOBILIARY PHENOTYPES IN CARRIERS OF THE AFRICAN-ANCESTRY SPECIFIC ABCB4 MISSENSE VARIANT P.ALA934THR**
  Mezina, A., Vujkovic, M., Park, J., Lynch, J. A., Voight, B. F., Tsao, P. S., Kaplan, D. E., Chang, K., Wangensteen, K., Rader, D. J.
  WILEY.2022: S1283

- **GERMLINE SUSCEPTIBILITY TO HEPATOCELLULAR CARCINOMA AMONG PATIENTS WITH CIRRHOSIS: A GENOME-WIDE ASSOCIATION STUDY**
  Kaplan, D. E., Vujkovic, M., Dochtermann, D., Chang, B., Hoteit, M. A., Wangensteen, K., Keating, B., Shaked, A., Olthoff, K. M., Asrani, S. K., Testa, G., Trotter, J. F., Klintmalm, et al
  WILEY.2022: S182-S183

- **A multi-layer functional genomic analysis to understand noncoding genetic variation in lipids.** *American journal of human genetics*
  Ramdas, S., Judd, J., Graham, S. E., Kanoni, S., Wang, Y., Surakka, I., Wenz, B., Clarke, S. L., Chesi, A., Wells, A., Bhatti, K. F., Vedantam, S., Winkler, et al
  2022; 109 (8): 1366-1387

- **Large-scale genome-wide association study of coronary artery disease in genetically diverse populations.** *Nature medicine*
  Tcheandjieu, C., Zhu, X., Hilliard, A. T., Clarke, S. L., Napolioni, V., Ma, S., Lee, K. M., Fang, H., Chen, F., Lu, Y., Tsao, N. L., Raghavan, S., Koyama, et al
  2022

- **Race and Ethnicity Stratification for Polygenic Risk Score Analyses May Mask Disparities in Hispanics** *CIRCULATION*
  Clarke, S. L., Huang, R. L., Hilliard, A. T., Tcheandjieu, C., Lynch, J., Damrauer, S. M., Chang, K., Tsao, P. S., Assimes, T. L.
  2022; 146 (3): 265-267

- **Race and Ethnicity Stratification for Polygenic Risk Score Analyses May Mask Disparities in Hispanics.** *Circulation*
  Clarke, S. L., Huang, R. D., Hilliard, A. T., Tcheandjieu, C., Lynch, J., Damrauer, S. M., Chang, K. M., Tsao, P. S., Assimes, T. L.
  2022; 146 (3): 265-267

- **Role of MicroRNAs in acceleration of vascular endothelial senescence.** *Biochemistry and biophysics reports*
  Toyama, K., Spin, J. M., Deng, A. C., Abe, Y., Tsao, P. S., Mogi, M.
  2022; 30: 101281

- **Linear slope of serial FIB-4 measurements predicts liver-related complications and correlates with cirrhosis-associated genetic variants among patients with ALT-based NAFLD phenotype**
  Teerlink, C., Kaplan, D. E., Vujkovic, M., Voight, B., Chang, K., Lynch, J., Duvall, S., Anglin, T., Morgan, T., Tae-Hwi, L., Norden-Krichmar, T., Dochterman, D., Devineni, et al
  ELSEVIER.2022: S30-S31

- **Genetic interactions drive heterogeneity in causal variant effect sizes for gene expression and complex traits.** *American journal of human genetics*
  Patel, R. A., Musharoff, S. A., Spence, J. P., Pimentel, H., Tcheandjieu, C., Mostafavi, H., Sinnott-Armstrong, N., Clarke, S. L., Smith, C. J., V.A. Million Veteran Program,,, Durda, P. P., Taylor, K. D., et al
  2022

- **Multiomic analysis reveals cell-type-specific molecular determinants of COVID-19 severity.** *Cell systems*
  Zhang, S., Cooper-Knock, J., Weimer, A. K., Shi, M., Kozhaya, L., Unutmaz, D., Harvey, C., Julian, T. H., Furini, S., Frullanti, E., Fava, F., Renieri, A., Gao, et al
  2022

- **A multiancestry genome-wide association study of unexplained chronic ALT elevation as a proxy for nonalcoholic fatty liver disease with histological and radiological validation.** *Nature genetics*
  Vujkovic, M., Ramdas, S., Lorenz, K. M., Guo, X., Darlay, R., Cordell, H. J., He, J., Gindin, Y., Chung, C., Myers, R. P., Schneider, C. V., Park, J., Lee, et al
  2022

- **A multi-population phenome-wide association study of genetically-predicted height in the Million Veteran Program.** *PLoS genetics*
  Raghavan, S., Huang, J., Tcheandjieu, C., Huffman, J. E., Litkowski, E., Liu, C., Ho, Y. A., Hunter-Zinck, H., Zhao, H., Marouli, E., North, K. E., VA Million Veteran Program, Lange, E., et al
  2022; 18 (6): e1010193

- **High heritability of ascending aortic diameter and trans-ancestry prediction of thoracic aortic disease.** *Nature genetics*
  Tcheandjieu, C., Xiao, K., Tejeda, H., Lynch, J. A., Ruotsalainen, S., Bellomo, T., Palnati, M., Judy, R., Klarin, D., Kember, R. L., Verma, S., Palotie, A., Daly, et al
  2022

- **Genome-wide association study and replication of liver enzyme loci**
  Pazoki, R., Vujkovic, M., Elliott, J., Evangelou, E., Gill, D., Ghanbari, M., Van der Most, P. J., Pinto, R., Wielscher, M., Farlik, M., Zuber, V., de Knegt, R. J., Snieder, et al
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