

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, 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 molecules, 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

- **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
- **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
- **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., Tejada, 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

- **A Phenome-Wide Association Study of genes associated with COVID-19 severity reveals shared genetics with complex diseases in the Million Veteran Program.** *PLoS genetics*
Verma, A., Tsao, N. L., Thomann, L. O., Ho, Y., Iyengar, S. K., Luoh, S., Carr, R., Crawford, D. C., Efirid, J. T., Huffman, J. E., Hung, A., Ivey, K. L., Levin, et al
2022; 18 (4): e1010113
- **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 Knecht, R. J., Snieder, et al
SPRINGER NATURE.2022: 47-48
- **Development of a polygenic risk score to improve detection of peripheral artery disease.** *Vascular medicine (London, England)*
Wang, F., Ghazouari, I., Leeper, N. J., Tsao, P. S., Ross, E. G.
2022: 1358863X211067564
- **Genetic and clinical determinants of abdominal aortic diameter: genome-wide association studies, exome array data and Mendelian randomization study.** *Human molecular genetics*
Portilla-Fernandez, E., Klarin, D., Hwang, S., Biggs, M. L., Bis, J. C., Weiss, S., Rospleszcz, S., Natarajan, P., Hoffmann, U., Rogers, I. S., Truong, Q. A., Volker, U., Dorr, et al
2022
- **APOL1 Risk Variants, Acute Kidney Injury, and Death in Participants With African Ancestry Hospitalized With COVID-19 From the Million Veteran Program.** *JAMA internal medicine*
Hung, A. M., Shah, S. C., Bick, A. G., Yu, Z., Chen, H., Hunt, C. M., Wendt, F., Wilson, O., Greevy, R. A., Chung, C. P., Suzuki, A., Ho, Y., Akwo, et al
1800
- **Leveraging cell-type-specific regulatory networks to interpret genetic variants in abdominal aortic aneurysm.** *Proceedings of the National Academy of Sciences of the United States of America*
Ma, S., Chen, X., Zhu, X., Tsao, P. S., Wong, W. H.
1800; 119 (1)
- **Coronary Artery Disease Risk of Familial Hypercholesterolemia Genetic Variants Independent of Clinically Observed Longitudinal Cholesterol Exposure.** *Circulation. Genomic and precision medicine*
Clarke, S. L., Techandjieu, C., Hilliard, A. T., Lee, M., Lynch, J., Chang, K. M., Miller, D., Knowles, J. W., O'Donnell, C., Tsao, P., Rader, D. J., Wilson, P. W., Sun, et al
2022: CIRC GEN121003501
- **Genome-wide and phenome-wide analysis of ideal cardiovascular health in the VA Million Veteran Program.** *PLoS one*
Huang, R. D., Nguyen, X. T., Peloso, G. M., Trinder, M., Posner, D. C., Aragam, K. G., Ho, Y., Lynch, J. A., Damrauer, S. M., Chang, K., Tsao, P. S., Natarajan, P., Assimes, et al
2022; 17 (5): e0267900
- **Million Veteran Program's response to COVID-19: Survey development and preliminary findings.** *PLoS one*
Whitbourne, S. B., Nguyen, X. T., Song, R. J., Lord, E., Lyden, M., Harrington, K. M., Ward, R., Li, Y., Brewer, J. V., Cho, K. M., Djousse, L., Muralidhar, S., Tsao, et al
2022; 17 (4): e0266381
- **Preoperative Computed Tomography Angiography Reveals Leaflet-Specific Calcification and Excursion Patterns in Aortic Stenosis.** *Circulation. Cardiovascular imaging*
Chen, I. Y., Vedula, V., Malik, S. B., Liang, T., Chang, A. Y., Chung, K. S., Sayed, N., Tsao, P. S., Giacomini, J. C., Marsden, A. L., Wu, J. C.
1800: CIRCIMAGING121012884
- **Trellis for efficient data and task management in the VA Million Veteran Program.** *Scientific reports*
Ross, P. B., Song, J., Tsao, P. S., Pan, C.
2021; 11 (1): 23229
- **A Phenome-Wide Association Study of genes associated with COVID-19 severity reveals shared genetics with complex diseases in the Million Veteran Program.** *medRxiv : the preprint server for health sciences*
Verma, A., Tsao, N., Thomann, L., Ho, Y. L., Iyengar, S., Luoh, S. W., Carr, R., Crawford, D., Efirid, J. T., Huffman, J., Hung, A., Ivey, K., Levin, et al
2021
- **A GENOME-WIDE ASSOCIATION STUDY OF CHRONIC ALT-BASED NAFLD IN THE MILLION VETERAN PROGRAM WITH HISTOLOGICAL AND RADIOLOGICAL VALIDATION**

- 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., Park, J., Lee, et al
WILEY.2021: 6A-7A
- **A Missense Variant in the IL-6 Receptor and Protection from Peripheral Artery Disease.** *Circulation research*
Levin, M. G., Klarin, D., Georgakis, M. K., Lynch, J., Liao, K. P., Voight, B. F., O'Donnell, C. J., Chang, K., Assimes, T. L., Tsao, P. S., Damrauer, S. M.
2021
 - **peri-Adventitial delivery of smooth muscle cells in porous collagen scaffolds for treatment of experimental abdominal aortic aneurysm.** *Biomaterials science*
Mulorz, J., Shayan, M., Hu, C., Alcazar, C., Chan, A. H., Briggs, M., Wen, Y., Walvekar, A. P., Ramasubramanian, A. K., Spin, J. M., Chen, B., Tsao, P. S., Huang, et al
2021
 - **Dissecting the Shared Genetic Architecture of Suicide Attempt, Psychiatric Disorders, and Known Risk Factors.** *Biological psychiatry*
Mullins, N., Kang, J., Campos, A. I., Coleman, J. R., Edwards, A. C., Galfalvy, H., Levey, D. F., Lori, A., Shabalin, A., Starnawska, A., Su, M., Watson, H. J., Adams, et al
2021
 - **Nicotine Affects Murine Aortic Stiffness and Fatigue Response During Supraphysiological Cycling.** *Journal of biomechanical engineering*
Ho, E., Mulorz, J., Wong, J., Wagenhauser, M. U., Tsao, P., Ramasubramanian, A. K., Lee, S. J.
2021
 - **Regulatory variants in TCF7L2 are associated with thoracic aortic aneurysm.** *American journal of human genetics*
Roychowdhury, T., Lu, H., Hornsby, W. E., Crone, B., Wang, G. T., Guo, D., Sendamarai, A. K., Devineni, P., Lin, M., Zhou, W., Graham, S. E., Wolford, B. N., Surakka, et al
2021
 - **Publisher Correction: A multi-ethnic epigenome-wide association study of leukocyte DNA methylation and blood lipids.** *Nature communications*
Jhun, M., Mendelson, M., Wilson, R., Gondalia, R., Joehanes, R., Salfati, E., Zhao, X., Braun, K. V., Do, A. N., Hedman, A. K., Zhang, T., Carnero-Montoro, E., Shen, et al
2021; 12 (1): 4256
 - **Genetic Evidence for Repurposing of GLP1R (Glucagon-Like Peptide-1 Receptor) Agonists to Prevent Heart Failure.** *Journal of the American Heart Association*
Daghlas, I., Karhunen, V., Ray, D., Zuber, V., Burgess, S., Tsao, P. S., Lynch, J. A., Lee, K. M., Voight, B. F., Chang, K., Baker, E. H., Damrauer, S. M., Howson, et al
2021: e020331
 - **A multi-ethnic epigenome-wide association study of leukocyte DNA methylation and blood lipids.** *Nature communications*
Jhun, M., Mendelson, M., Wilson, R., Gondalia, R., Joehanes, R., Salfati, E., Zhao, X., Braun, K. V., Do, A. N., Hedman, A. K., Zhang, T., Carnero-Montoro, E., Shen, et al
2021; 12 (1): 3987
 - **Prioritizing the Role of Major Lipoproteins and Subfractions as Risk Factors for Peripheral Artery Disease.** *Circulation*
Levin, M. G., Zuber, V., Walker, V. M., Klarin, D., Lynch, J., Malik, R., Aday, A. W., Bottolo, L., Pradhan, A. D., Dichgans, M., Chang, K., Rader, D. J., Tsao, et al
2021
 - **Genetic Determinants of Peripheral Artery Disease.** *Circulation research*
Klarin, D., Tsao, P. S., Damrauer, S. M.
2021; 128 (12): 1805-1817
 - **MicroRNA miR-29b regulates diabetic aortic remodeling and stiffening.** *Molecular therapy. Nucleic acids*
Schellinger, I. N., Wagenhauser, M., Chodisetti, G., Mattern, K., Dannert, A., Petzold, A., Jakubizka-Smorag, J., Emrich, F., Haunschild, J., Schuster, A., Schwob, E., Schulz, K., Maegdefessel, et al
2021; 24: 188-99
 - **Association of the transthyretin variant V122I with polyneuropathy among individuals of African ancestry.** *Scientific reports*
Parker, M. M., Damrauer, S. M., Tcheandjie, C., Erbe, D., Aldinc, E., Hawkins, P. N., Gillmore, J. D., Hull, L. E., Lynch, J. A., Joseph, J., Ticau, S., Flynn-Carroll, A. O., Deaton, et al
2021; 11 (1): 11645

- **Risk factors mediating the effect of body mass index and waist-to-hip ratio on cardiovascular outcomes: Mendelian randomization analysis.** *International journal of obesity (2005)*
Gill, D., Zuber, V., Dawson, J., Pearson-Stuttard, J., Carter, A. R., Sanderson, E., Karhunen, V., Levin, M. G., Wootton, R. E., Klarin, D., Tsao, P. S., Tsilidis, K. K., Damrauer, et al
2021
- **Genetic analysis in European ancestry individuals identifies 517 loci associated with liver enzymes.** *Nature communications*
Pazoki, R., Vujkovic, M., Elliott, J., Evangelou, E., Gill, D., Ghanbari, M., van der Most, P. J., Pinto, R. C., Wielscher, M., Farlik, M., Zuber, V., de Knegt, R. J., Snieder, et al
2021; 12 (1): 2579
- **Response by Pan and Tsao to Letter Regarding Article, "Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program".** *Circulation*
Pan, C., Tsao, P. S.
2021; 143 (17): e873–e874
- **Association Between Genetic Variation in Blood Pressure and Increased Lifetime Risk of Peripheral Artery Disease.** *Arteriosclerosis, thrombosis, and vascular biology*
Levin, M. G., Klarin, D., Walker, V. M., Gill, D., Lynch, J., Hellwege, J. N., Keaton, J. M., Lee, K. M., Assimes, T. L., Natarajan, P., Hung, A. M., Edwards, T., Rader, et al
2021: ATVB AHA120315482
- **Actionable druggable genome-wide Mendelian randomization identifies repurposing opportunities for COVID-19.** *Nature medicine*
Gaziano, L., Giambartolomei, C., Pereira, A. C., Gaulton, A., Posner, D. C., Swanson, S. A., Ho, Y., Iyengar, S. K., Kosik, N. M., Vujkovic, M., Gagnon, D. R., Bento, A. P., Barrio-Hernandez, et al
2021
- **Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals (vol 52, pg 1314, 2020) NATURE GENETICS**
Surendran, P., Feofanova, E. V., Lahrouchi, N., Ntalla, I., Karthikeyan, S., Cook, J., Chen, L., Mifsud, B., Yao, C., Kraja, A. T., Cartwright, J. H., Hellwege, J. N., Giri, et al
2021
- **Hummingbird: Efficient Performance Prediction for Executing Genomic Applications in the Cloud.** *Bioinformatics (Oxford, England)*
Bahmani, A., Xing, Z., Krishnan, V., Ray, U., Mueller, F., Alavi, A., Tsao, P. S., Snyder, M. P., Pan, C.
2021
- **Exosome miR-501-3p Elevation Contributes to Progression of Vascular Stiffness.** *Circulation reports*
Toyama, K., Igase, M., Spin, J. M., Abe, Y., Javkhlant, A., Okada, Y., Wagenhauser, M. U., Schelzig, H., Tsao, P. S., Mogi, M.
2021; 3 (3): 170–77
- **Multi-trait association studies discover pleiotropic loci between Alzheimer's disease and cardiometabolic traits.** *Alzheimer's research & therapy*
Bone, W. P., Siewert, K. M., Jha, A., Klarin, D., Damrauer, S. M., VA Million Veteran Program, Chang, K., Tsao, P. S., Assimes, T. L., Ritchie, M. D., Voight, B. F., Ballas, Z. K., Bhushan, S., et al
2021; 13 (1): 34
- **Genetics of Smoking and Risk of Atherosclerotic Cardiovascular Diseases: A Mendelian Randomization Study.** *JAMA network open*
Levin, M. G., Klarin, D., Assimes, T. L., Freiberg, M. S., Ingelsson, E., Lynch, J., Natarajan, P., O'Donnell, C., Rader, D. J., Tsao, P. S., Chang, K., Voight, B. F., Damrauer, et al
2021; 4 (1): e2034461
- **Chitinase 3 like 1 (CHI3L1) is a regulator of smooth muscle cell physiology and atherosclerotic lesion stability.** *Cardiovascular research*
Tsantilas, P. n., Lao, S. n., Wu, Z. n., Eberhard, A. n., Winski, G. n., Vaerst, M. n., Nanda, V. n., Wang, Y. n., Kojima, Y. n., Ye, J. n., Flores, A. n., Jarr, K. U., Pelisek, et al
2021
- **Multi-Trait Genome-Wide Association Study of Atherosclerosis Detects Novel Pleiotropic Loci.** *Frontiers in genetics*
Bellomo, T. R., Bone, W. P., Chen, B. Y., Gawronski, K. A., Zhang, D., Park, J., Levin, M., Tsao, N., Klarin, D., Lynch, J., Assimes, T. L., Gaziano, J. M., Wilson, et al
2021; 12: 787545

- **A statistical quality assessment method for longitudinal observations in electronic health record data with an application to the VA million veteran program.** *BMC medical informatics and decision making*
Wang, H., Belitskaya-Levy, I., Wu, F., Lee, J. S., Shih, M. C., Tsao, P. S., Lu, Y.
2021; 21 (1): 289
- **Phenome-wide association of 1809 phenotypes and COVID-19 disease progression in the Veterans Health Administration Million Veteran Program.** *PLoS one*
Song, R. J., Ho, Y., Schubert, P., Park, Y., Posner, D., Lord, E. M., Costa, L., Gerlovin, H., Kurgansky, K. E., Anglin-Foote, T., DuVall, S., Huffman, J. E., Pyarajan, et al
2021; 16 (5): e0251651
- **Swarm: A federated cloud framework for large-scale variant analysis.** *PLoS computational biology*
Bahmani, A. n., Ferriter, K. n., Krishnan, V. n., Alavi, A. n., Alavi, A. n., Tsao, P. S., Snyder, M. P., Pan, C. n.
2021; 17 (5): e1008977
- **Unresolved Issues in RNA Therapeutics in Vascular Diseases With a Focus on Aneurysm Disease.** *Frontiers in cardiovascular medicine*
Schellinger, I. N., Dannert, A. R., Mattern, K., Raaz, U., Tsao, P. S.
2021; 8: 571076
- **E-Cigarettes and Cardiopulmonary Health.** *Function (Oxford, England)*
Tarran, R., Barr, R. G., Benowitz, N. L., Bhatnagar, A., Chu, H. W., Dalton, P., Doerschuk, C. M., Drummond, M. B., Gold, D. R., Goniewicz, M. L., Gross, E. R., Hansel, N. N., Hopke, et al
2021; 2 (2): zqab004
- **Urate, Blood Pressure, and Cardiovascular Disease: Evidence From Mendelian Randomization and Meta-Analysis of Clinical Trials.** *Hypertension (Dallas, Tex. : 1979)*
Gill, D., Cameron, A. C., Burgess, S., Li, X., Doherty, D. J., Karhunen, V., Abdul-Rahim, A. H., Taylor-Rowan, M., Zuber, V., Tsao, P. S., Klarin, D., VA Million Veteran Program, Evangelou, E., et al
2020: HYPERTENSIONAHA12016547
- **Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals.** *Nature genetics*
Surendran, P., Feofanova, E. V., Lahrouchi, N., Ntalla, I., Karthikeyan, S., Cook, J., Chen, L., Mifsud, B., Yao, C., Kraja, A. T., Cartwright, J. H., Hellwege, J. N., Giri, et al
2020
- **Transfer learning enables prediction of CYP2D6 haplotype function.** *PLoS computational biology*
McInnes, G., Dalton, R., Sangkuhl, K., Whirl-Carrillo, M., Lee, S., Tsao, P. S., Gaedigk, A., Altman, R. B., Woodahl, E. L.
2020; 16 (11): e1008399
- **The V122I Variant in Hereditary Transthyretin-Mediated Amyloidosis is Significantly Associated with Polyneuropathy**
Parker, M. M., Damrauer, S. M., Tcheandjieu, C., Erbe, D., Aldinc, E., Hawkins, P. N., Gillmore, J., Hull, L. E., Lynch, J. A., Joseph, J., Ticau, S., Flynn-Carroll, A. O., Deaton, et al
CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2020: S96
- **Mendelian Randomization Analysis of Hemostatic Factors and Their Contribution to Peripheral Artery Disease.** *Arteriosclerosis, thrombosis, and vascular biology*
Small, A. M., Huffman, J. E., Klarin, D., Sabater-Lleal, M., Lynch, J. A., Assimes, T. L., Sun, Y. V., Miller, D., Freiberg, M. S., Morrison, A. C., Rader, D. J., Wilson, P. W., Cho, et al
2020: ATVBAAH119313847
- **Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study** *PLOS GENETICS*
Hu, Y., Graff, M., Haessler, J., Buyske, S., Bien, S. A., Tao, R., Highland, H. M., Nishimura, K. K., Zubair, N., Lu, Y., Verbanck, M., Hilliard, A. T., Klarin, et al
2020; 16 (3)
- **Involvement of Myeloid Cells and Non-Coding RNA in Abdominal Aortic Aneurysm Disease.** *Antioxidants & redox signaling*
Knappich, C. n., Spin, J. M., Eckstein, H. H., Tsao, P. S., Maegdefessel, L. n.
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