Philip S Tsao

List of Publications by Citations

113 papers	6,565 citations	35 h-index	80 g-index
135 ext. papers	9,114 ext. citations	13.1 avg, IF	4.96 L-index

#	Paper	IF	Citations
113	Nicotine stimulates angiogenesis and promotes tumor growth and atherosclerosis. *Nature Medicine*, **2001**, 7, 833-9	50.5	622
112	Homocysteine impairs the nitric oxide synthase pathway: role of asymmetric dimethylarginine. *Circulation*, **2001**, 104, 2569-75	16.7	544
111	DNA methylation-based measures of biological age: meta-analysis predicting time to death. *Aging*, **2016**, 8, 1844-1865	5.6	531
110	Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits. *Nature Genetics*, **2018**, 50, 1412-1425	36.3	386
109	An epigenetic clock analysis of race/ethnicity, sex, and coronary heart disease. *Genome Biology*, **2016**, 17, 171	18.3	357
108	Epigenetic clock analysis of diet, exercise, education, and lifestyle factors. *Aging*, **2017**, 9, 419-446	5.6	317
107	Exome-wide association study of plasma lipids in >300,000 individuals. *Nature Genetics*, **2017**, 49, 1758-1766	36.3	310
106	Genetics of blood lipids among ~300,000 multi-ethnic participants of the Million Veteran Program. *Nature Genetics*, **2018**, 50, 1514-1523	36.3	260
105	eNOS activity is reduced in senescent human endothelial cells: Preservation by hTERT immortalization. *Circulation Research*, **2001**, 89, 793-8	15.7	226
104	Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations. *Nature Communications*, **2019**, 10, 1499	17.4	164
103	Regression or progression. Dependency on vascular nitric oxide. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1996**, 16, 44-50	9.4	158
102	miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development. *Nature Communications*, **2014**, 5, 5214	17.4	152
101	Trans-ethnic association study of blood pressure determinants in over 750,000 individuals. *Nature Genetics*, **2019**, 51, 51-62	36.3	152
100	Human Engineered Heart Muscles Engraft and Survive Long Term in a Rodent Myocardial Infarction Model. *Circulation Research*, **2015**, 117, 720-30	15.7	146
99	Discovery of 318 new risk loci for type 2 diabetes and related vascular outcomes among 1.4 million participants in a multi-ancestry meta-analysis. *Nature Genetics*, **2020**, 52, 680-691	36.3	140
98	Nitric oxide regulates monocyte chemotactic protein-1. *Circulation*, **1997**, 96, 934-40	16.7	139
97	Transcriptomic Profiling Maps Anatomically Patterned Subpopulations among Single Embryonic Cardiac Cells. *Developmental Cell*, **2016**, 39, 491-507	10.2	129

96	Exposure to shear stress alters endothelial adhesiveness. Role of nitric oxide. *Circulation*, **1995**, 92, 3513-19	16.7	125
95	Regression of atherosclerosis: role of nitric oxide and apoptosis. *Circulation*, **1999**, 99, 1236-41	16.7	115
94	H19 Induces Abdominal Aortic Aneurysm Development and Progression. *Circulation*, **2018**, 138, 1551-1568	16.7	111
93	GWAS of epigenetic aging rates in blood reveals a critical role for TERT. *Nature Communications*, **2018**, 9, 387	17.4	106
92	Asymmetric dimethylarginine increases mononuclear cell adhesiveness in hypercholesterolemic humans. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 1040-6	9.4	106
91	Segmental aortic stiffening contributes to experimental abdominal aortic aneurysm development. *Circulation*, **2015**, 131, 1783-95	16.7	90
90	Genome-wide association study of peripheral artery disease in the Million Veteran Program. *Nature Medicine*, **2019**, 25, 1274-1279	50.5	73
89	Cyclic strain induces reactive oxygen species production via an endothelial NAD(P)H oxidase. *Journal of Cellular Biochemistry*, **2001**, Suppl 36, 99-106	4.7	72
88	Blood Leukocyte DNA Methylation Predicts Risk of Future Myocardial Infarction and Coronary Heart Disease. *Circulation*, **2019**, 140, 645-657	16.7	65
87	Transcription Factor Runx2 Promotes Aortic Fibrosis and Stiffness in Type 2 Diabetes Mellitus. *Circulation Research*, **2015**, 117, 513-24	15.7	64
86	Dichloroacetate prevents restenosis in preclinical animal models of vessel injury. *Nature*, **2014**, 509, 641-4	50.4	64
85	Genome-wide association analysis of venous thromboembolism identifies new risk loci and genetic overlap with arterial vascular disease. *Nature Genetics*, **2019**, 51, 1574-1579	36.3	56
84	A missense variant in Mitochondrial Amidoxime Reducing Component 1 gene and protection against liver disease. *PLoS Genetics*, **2020**, 16, e1008629	6	49
83	Association of Interleukin 6 Receptor Variant With Cardiovascular Disease Effects of Interleukin 6 Receptor Blocking Therapy: A Phenome-Wide Association Study. *JAMA Cardiology*, **2018**, 3, 849-857	16.2	48
82	Harmonizing Genetic Ancestry and Self-identified Race/Ethnicity in Genome-wide Association Studies. *American Journal of Human Genetics*, **2019**, 105, 763-772	11	41
81	Mechanotransduction of endothelial oxidative stress induced by cyclic strain. *Endothelium: Journal of Endothelial Cell Research*, **2001**, 8, 283-91		40
80	Mapping eGFR loci to the renal transcriptome and phenome in the VA Million Veteran Program. *Nature Communications*, **2019**, 10, 3842	17.4	36
79	Impaired aerobic capacity in hypercholesterolemic mice: partial reversal by exercise training. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 276, H1346-54	5.2	35

78	Decoding the Genomics of Abdominal Aortic Aneurysm. *Cell*, **2018**, 174, 1361-1372.e10	56.2	34
77	MicroRNA-29b regulation of abdominal aortic aneurysm development. *Trends in Cardiovascular Medicine*, **2014**, 24, 1-6	6.9	28
76	Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. *Nature Genetics*, **2020**, 52, 1314-1332	36.3	26
75	Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program. *Circulation*, **2020**, 142, 1633-1646	16.7	24
74	Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic Aneurysm. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 1796-1805	9.4	22
73	Genotyping Array Design and Data Quality Control in the Million Veteran Program. *American Journal of Human Genetics*, **2020**, 106, 535-548	11	22
72	Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility. *Frontiers in Physiology*, **2018**, 9, 1459	4.6	22
71	Hypoxia inducible factor stabilization improves defective ischemia-induced angiogenesis in a rodent model of chronic kidney disease. *Kidney International*, **2017**, 91, 616-627	9.9	21
70	Apelin and APJ orchestrate complex tissue-specific control of cardiomyocyte hypertrophy and contractility in the hypertrophy-heart failure transition. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H348-H356	5.2	19
69	Red blood cells serve as intravascular carriers of myeloperoxidase. *Journal of Molecular and Cellular Cardiology*, **2014**, 74, 353-63	5.8	19
68	Actionable druggable genome-wide Mendelian randomization identifies repurposing opportunities for COVID-19. *Nature Medicine*, **2021**, 27, 668-676	50.5	19
67	Heme Oxygenase-1 Expression Affects Murine Abdominal Aortic Aneurysm Progression. *PLoS ONE*, **2016**, 11, e0149288	3.7	18
66	Therapeutic perspective on vascular cognitive impairment. *Pharmacological Research*, **2019**, 146, 104266	10.2	16
65	The relationship between circulating lipids and breast cancer risk: A Mendelian randomization study. *PLoS Medicine*, **2020**, 17, e1003302	11.6	16
64	Cross-trait analyses with migraine reveal widespread pleiotropy and suggest a vascular component to migraine headache. *International Journal of Epidemiology*, **2020**, 49, 1022-1031	7.8	15
63	Urate, Blood Pressure, and Cardiovascular Disease: Evidence From Mendelian Randomization and Meta-Analysis of Clinical Trials. *Hypertension*, **2021**, 77, 383-392	8.5	15
62	Levosimendan displays anti-inflammatory effects and decreases MPO bioavailability in patients with severe heart failure. *Scientific Reports*, **2015**, 5, 9704	4.9	14
61	Dietary fructose in pregnancy induces hyperglycemia, hypertension, and pathologic kidney and liver changes in a rodent model. *Pregnancy Hypertension*, **2015**, 5, 308-14	2.6	13

60	Transfer learning enables prediction of CYP2D6 haplotype function. *PLoS Computational Biology*, **2020**, 16, e1008399	5	12
59	Genetics of Smoking and Risk of Atherosclerotic Cardiovascular Diseases: A Mendelian Randomization Study. *JAMA Network Open*, **2021**, 4, e2034461	10.4	11
58	Risk factors mediating the effect of body mass index and waist-to-hip ratio on cardiovascular outcomes: Mendelian randomization analysis. *International Journal of Obesity*, **2021**, 45, 1428-1438	5.5	10
57	Does enhanced insulin sensitivity improve sleep measures in patients with obstructive sleep apnea: a randomized, placebo-controlled pilot study. *Sleep Medicine*, **2016**, 22, 57-60	4.6	8
56	E-Cigarettes and Cardiopulmonary Health. *Function*, **2021**, 2, zqab004	6.1	8
55	Cloud-based interactive analytics for terabytes of genomic variants data. *Bioinformatics*, **2017**, 33, 3709-3715	7.2	7
54	Genetic analysis in European ancestry individuals identifies 517 loci associated with liver enzymes. *Nature Communications*, **2021**, 12, 2579	17.4	7
53	Association Between Genetic Variation in Blood Pressure and Increased Lifetime Risk of Peripheral Artery Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 2027-2034	9.4	7
52	Involvement of Myeloid Cells and Noncoding RNA in Abdominal Aortic Aneurysm Disease. *Antioxidants and Redox Signaling*, **2020**, 33, 602-620	8.4	6
51	Prioritizing the Role of Major Lipoproteins and Subfractions as Risk Factors for Peripheral Artery Disease. *Circulation*, **2021**, 144, 353-364	16.7	6
50	Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study. *PLoS Genetics*, **2020**, 16, e1008684	6	5
49	Validating a non-invasive, ALT-based non-alcoholic fatty liver phenotype in the million veteran program. *PLoS ONE*, **2020**, 15, e0237430	3.7	5
48	A trans-ancestry genome-wide association study of unexplained chronic ALT elevation as a proxy for nonalcoholic fatty liver disease with histological and radiological validation		5
47	Non-coding RNAs in aneurysmal aortopathy. *Vascular Pharmacology*, **2019**, 114, 110-121	5.9	4
46	Mendelian Randomization Analysis of Hemostatic Factors and Their Contribution to Peripheral Artery Disease-Brief Report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 380-386	9.4	4
45	Phenome-wide association of 1809 phenotypes and COVID-19 disease progression in the Veterans Health Administration Million Veteran Program. *PLoS ONE*, **2021**, 16, e0251651	3.7	4
44	Antioxidants from diet or supplements do not alter inflammatory markers in adults with cardiovascular disease risk. A pilot randomized controlled trial. *Nutrition Research*, **2018**, 50, 63-72	4	4
43	Controlled isoflurane anesthesia exposure is required for reliable behavioral testing in murine surgical models. *Journal of Pharmacological Sciences*, **2019**, 140, 106-108	3.7	3

42	The Use of Immunofluorescent Array Tomography to Study the Three-Dimensional Microstructure of Murine Blood Vessels. *Cellular and Molecular Bioengineering*, **2011**, 4, 311-323	3.9	3
41	A multi-ethnic epigenome-wide association study of leukocyte DNA methylation and blood lipids. *Nature Communications*, **2021**, 12, 3987	17.4	3
40	Effect of Pioglitazone on Cardiometabolic Risk in Patients With Obstructive Sleep Apnea. *American Journal of Cardiology*, **2017**, 119, 1205-1210	3	2
39	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*, **2022**,	11.5	2
38	Coronary Artery Disease Risk of Familial Hypercholesterolemia Genetic Variants Independent of Clinically Observed Longitudinal Cholesterol Exposure.. *Circulation Genomic and Precision Medicine*, **2022**, CIRCGEN121003501	5.2	2
37	PCSK9 loss of function is protective against extra-coronary atherosclerotic cardiovascular disease in a large multi-ethnic cohort. *PLoS ONE*, **2020**, 15, e0239752	3.7	2
36	Genetic determinants of increased body mass index mediate the effect of smoking on increased risk for type 2 diabetes but not coronary artery disease. *Human Molecular Genetics*, **2020**, 29, 3327-3337	5.6	2
35	Genetic Determinants of Peripheral Artery Disease. *Circulation Research*, **2021**, 128, 1805-1817	15.7	2
34	An Automated Algorithm to Quantify Collagen Distribution in Aortic Wall. *Journal of Histochemistry and Cytochemistry*, **2019**, 67, 267-274	3.4	2
33	Chitinase 3 like 1 (CHI3L1) is a regulator of smooth muscle cell physiology and atherosclerotic lesion stability. *Cardiovascular Research*, **2021**,	9.9	2
32	Regulatory variants in TCF7L2 are associated with thoracic aortic aneurysm. *American Journal of Human Genetics*, **2021**, 108, 1578-1589	11	2
31	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*,	36.3	2
30	Swarm: A federated cloud framework for large-scale variant analysis. *PLoS Computational Biology*, **2021**, 17, e1008977	5	1
29	MicroRNA miR-29b regulates diabetic aortic remodeling and stiffening. *Molecular Therapy - Nucleic Acids*, **2021**, 24, 188-199	10.7	1
28	Response to Letters Regarding Article, "Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development". *Circulation*, **2016**, 133, e11-2	16.7	1
27	Genetic Evidence for Repurposing of GLP1R (Glucagon-Like Peptide-1 Receptor) Agonists to Prevent Heart Failure. *Journal of the American Heart Association*, **2021**, 10, e020331	6	1
26	A MUC5B gene polymorphism, rs35705950-T, confers protective effects in COVID-19 infection		1
25	Preoperative Computed Tomography Angiography Reveals Leaflet-Specific Calcification and Excursion Patterns in Aortic Stenosis.. *Circulation: Cardiovascular Imaging*, **2021**, 14, 1122-1132	3.9	1

24	Trellis for efficient data and task management in the VA Million Veteran Program. *Scientific Reports* , **2021**, 11, 23229	4.9	0
23	Unresolved Issues in RNA Therapeutics in Vascular Diseases With a Focus on Aneurysm Disease. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 571076	5.4	0
22	A Missense Variant in the IL-6 Receptor and Protection From Peripheral Artery Disease. *Circulation Research*, **2021**, 129, 968-970	15.7	0
21	Development of a polygenic risk score to improve detection of peripheral artery disease.. *Vascular Medicine*, **2022**, 1358863X211067564	3.3	0
20	Million Veteran Program's response to COVID-19: Survey development and preliminary findings.. *PLoS ONE*, **2022**, 17, e0266381	3.7	0
19	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*, **2022**, 18, e1010113	6	0
18	A multi-population phenome-wide association study of genetically-predicted height in the Million Veteran Program. *PLoS Genetics*, **2022**, 18, e1010193	6	0
17	Multi-Trait Genome-Wide Association Study of Atherosclerosis Detects Novel Pleiotropic Loci.. *Frontiers in Genetics*, **2021**, 12, 787545	4.5	
16	Response by Pan and Tsao to Letter Regarding Article, "Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program". *Circulation*, **2021**, 143, e873-e874	16.7	
15	Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study **2020**, 16, e1008684		
14	Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study **2020**, 16, e1008684		
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10	Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study **2020**, 16, e1008684		
9	The relationship between circulating lipids and breast cancer risk: A Mendelian randomization study **2020**, 17, e1003302		
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3	The relationship between circulating lipids and breast cancer risk: A Mendelian randomization study **2020**, 17, e1003302	
2	Role of MicroRNAs in acceleration of vascular endothelial senescence. *Biochemistry and Biophysics Reports*, **2022**, 30, 101281	2.2
1	Genome-wide and phenome-wide analysis of ideal cardiovascular health in the VA Million Veteran Program. *PLoS ONE*, **2022**, 17, e0267900	3.7