Thomas Quertermous

List of Publications by Citations

221 papers	32,264 citations	70 h-index	179 g-index
246 ext. papers	38,435 ext. citations	11.9 avg, IF	6.23 L-index

#	Paper	IF	Citations
221	Biological, clinical and population relevance of 95 loci for blood lipids. *Nature*, **2010**, 466, 707-13	50.4	2742
220	Genetic studies of body mass index yield new insights for obesity biology. *Nature*, **2015**, 518, 197-206	50.4	2687
219	Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index. *Nature Genetics*, **2010**, 42, 937-48	36.3	2267
218	Discovery and refinement of loci associated with lipid levels. *Nature Genetics*, **2013**, 45, 1274-1283	36.3	1904
217	Hundreds of variants clustered in genomic loci and biological pathways affect human height. *Nature*, **2010**, 467, 832-8	50.4	1514
216	Large-scale association analysis identifies 13 new susceptibility loci for coronary artery disease. *Nature Genetics*, **2011**, 43, 333-8	36.3	1394
215	Defining the role of common variation in the genomic and biological architecture of adult human height. *Nature Genetics*, **2014**, 46, 1173-86	36.3	1339
214	A comprehensive 1,000 Genomes-based genome-wide association meta-analysis of coronary artery disease. *Nature Genetics*, **2015**, 47, 1121-1130	36.3	1290
213	Large-scale association analysis identifies new risk loci for coronary artery disease. *Nature Genetics*, **2013**, 45, 25-33	36.3	1172
212	Genome-wide meta-analyses identify multiple loci associated with smoking behavior. *Nature Genetics*, **2010**, 42, 441-7	36.3	927
211	New genetic loci link adipose and insulin biology to body fat distribution. *Nature*, **2015**, 518, 187-196	50.4	920
210	Meta-analysis identifies 13 new loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution. *Nature Genetics*, **2010**, 42, 949-60	36.3	724
209	Common variants associated with plasma triglycerides and risk for coronary artery disease. *Nature Genetics*, **2013**, 45, 1345-52	36.3	597
208	A long noncoding RNA protects the heart from pathological hypertrophy. *Nature*, **2014**, 514, 102-106	50.4	529
207	Identification of ADAMTS7 as a novel locus for coronary atherosclerosis and association of ABO with myocardial infarction in the presence of coronary atherosclerosis: two genome-wide association studies. *Lancet, The*, **2011**, 377, 383-92	40	399
206	Clinical interpretation and implications of whole-genome sequencing. *JAMA - Journal of the American Medical Association*, **2014**, 311, 1035-45	27.4	333
205	CD47-blocking antibodies restore phagocytosis and prevent atherosclerosis. *Nature*, **2016**, 536, 86-90	50.4	278

204	Novel role for the potent endogenous inotrope apelin in human cardiac dysfunction. *Circulation*, **2003**, 108, 1432-9	16.7	276
203	Opportunities and challenges for transcriptome-wide association studies. *Nature Genetics*, **2019**, 51, 592-599	36.3	266
202	Enhancer connectome in primary human cells identifies target genes of disease-associated DNA elements. *Nature Genetics*, **2017**, 49, 1602-1612	36.3	253
201	The endogenous peptide apelin potently improves cardiac contractility and reduces cardiac loading in vivo. *Cardiovascular Research*, **2005**, 65, 73-82	9.9	253
200	The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. *Nature Genetics*, **2016**, 48, 1171-1184	36.3	251
199	Cloning of a unique lipase from endothelial cells extends the lipase gene family. *Journal of Biological Chemistry*, **1999**, 274, 14170-5	5.4	246
198	Endothelial lipase is a major determinant of HDL level. *Journal of Clinical Investigation*, **2003**, 111, 347-55	15.9	230
197	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. *PLoS Genetics*, **2015**, 11, e1005378	6	220
196	Identification of heart rate-associated loci and their effects on cardiac conduction and rhythm disorders. *Nature Genetics*, **2013**, 45, 621-31	36.3	219
195	Del-1, an endogenous leukocyte-endothelial adhesion inhibitor, limits inflammatory cell recruitment. *Science*, **2008**, 322, 1101-4	33.3	218
194	Apelin signaling antagonizes Ang II effects in mouse models of atherosclerosis. *Journal of Clinical Investigation*, **2008**, 118, 3343-54	15.9	214
193	Detailed physiologic characterization reveals diverse mechanisms for novel genetic Loci regulating glucose and insulin metabolism in humans. *Diabetes*, **2010**, 59, 1266-75	0.9	211
192	Atheroprotective roles of smooth muscle cell phenotypic modulation and the TCF21 disease gene as revealed by single-cell analysis. *Nature Medicine*, **2019**, 25, 1280-1289	50.5	198
191	A bivariate genome-wide approach to metabolic syndrome: STAMPEED consortium. *Diabetes*, **2011**, 60, 1329-39	0.9	194
190	Fifteen new risk loci for coronary artery disease highlight arterial-wall-specific mechanisms. *Nature Genetics*, **2017**, 49, 1113-1119	36.3	184
189	Apelin is necessary for the maintenance of insulin sensitivity. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E59-67	6	178
188	Analysis of Transcriptional Variability in a Large Human iPSC Library Reveals Genetic and Non-genetic Determinants of Heterogeneity. *Cell Stem Cell*, **2017**, 20, 518-532.e9	18	164
187	Integrative genomics reveals novel molecular pathways and gene networks for coronary artery disease. *PLoS Genetics*, **2014**, 10, e1004502	6	147

186	Susceptibility locus for clinical and subclinical coronary artery disease at chromosome 9p21 in the multi-ethnic ADVANCE study. *Human Molecular Genetics*, **2008**, 17, 2320-8	5.6	146
185	Cloning of an immunoglobulin family adhesion molecule selectively expressed by endothelial cells. *Journal of Biological Chemistry*, **2001**, 276, 16223-31	5.4	143
184	Endogenous regulation of cardiovascular function by apelin-APJ. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1904-13	5.2	136
183	Pathway analysis of coronary atherosclerosis. *Physiological Genomics*, **2005**, 23, 103-18	3.6	136
182	Identification of new susceptibility loci for type 2 diabetes and shared etiological pathways with coronary heart disease. *Nature Genetics*, **2017**, 49, 1450-1457	36.3	136
181	Design of the Coronary ARtery DIsease Genome-Wide Replication And Meta-Analysis (CARDIoGRAM) Study: A Genome-wide association meta-analysis involving more than 22 000 cases and 60 000 controls. *Circulation: Cardiovascular Genetics*, **2010**, 3, 475-83		135
180	Transcriptomic Profiling Maps Anatomically Patterned Subpopulations among Single Embryonic Cardiac Cells. *Developmental Cell*, **2016**, 39, 491-507	10.2	129
179	Disruption of the apelin-APJ system worsens hypoxia-induced pulmonary hypertension. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 814-20	9.4	126
178	Del1 induces integrin signaling and angiogenesis by ligation of alphaVbeta3. *Journal of Biological Chemistry*, **1999**, 274, 11101-9	5.4	124
177	Targeting LOXL2 for cardiac interstitial fibrosis and heart failure treatment. *Nature Communications* , **2016**, 7, 13710	17.4	118
176	Prepregnancy Diabetes and Offspring Risk of Congenital Heart Disease: A Nationwide Cohort Study. *Circulation*, **2016**, 133, 2243-53	16.7	118
175	Apelin prevents aortic aneurysm formation by inhibiting macrophage inflammation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1329-35	5.2	114
174	Characterizing the admixed African ancestry of African Americans. *Genome Biology*, **2009**, 10, R141	18.3	114
173	In vivo genetic profiling and cellular localization of apelin reveals a hypoxia-sensitive, endothelial-centered pathway activated in ischemic heart failure. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H88-98	5.2	114
172	Endothelial lipase modulates susceptibility to atherosclerosis in apolipoprotein-E-deficient mice. *Journal of Biological Chemistry*, **2004**, 279, 45085-92	5.4	110
171	Metabolic syndrome and early-onset coronary artery disease: is the whole greater than its parts?. *Journal of the American College of Cardiology*, **2006**, 48, 1800-7	15.1	106
170	Apelin-APJ signaling is a critical regulator of endothelial MEF2 activation in cardiovascular development. *Circulation Research*, **2013**, 113, 22-31	15.7	103
169	NHLBI workshop report: endothelial cell phenotypes in heart, lung, and blood diseases. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1422-33	5.4	101

168	Identification of endothelial cell genes by combined database mining and microarray analysis. *Physiological Genomics*, **2003**, 13, 249-62	3.6	99
167	Hepatic proprotein convertases modulate HDL metabolism. *Cell Metabolism*, **2007**, 6, 129-36	24.6	98
166	Trans-ethnic fine-mapping of lipid loci identifies population-specific signals and allelic heterogeneity that increases the trait variance explained. *PLoS Genetics*, **2013**, 9, e1003379	6	94
165	Transcriptional profiling of the heart reveals chamber-specific gene expression patterns. *Circulation Research*, **2003**, 93, 1193-201	15.7	92
164	Coronary heart disease-associated variation in TCF21 disrupts a miR-224 binding site and miRNA-mediated regulation. *PLoS Genetics*, **2014**, 10, e1004263	6	91
163	Association analyses of East Asian individuals and trans-ancestry analyses with European individuals reveal new loci associated with cholesterol and triglyceride levels. *Human Molecular Genetics*, **2017**, 26, 1770-1784	5.6	90
162	Loss of CDKN2B promotes p53-dependent smooth muscle cell apoptosis and aneurysm formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, e1-e10	9.4	86
161	Targeted disruption of endothelial cell-selective adhesion molecule inhibits angiogenic processes in vitro and in vivo. *Journal of Biological Chemistry*, **2003**, 278, 34598-604	5.4	86
160	Association of the PHACTR1/EDN1 Genetic Locus With Spontaneous Coronary Artery Dissection. *Journal of the American College of Cardiology*, **2019**, 73, 58-66	15.1	86
159	Genetic targeting of sprouting angiogenesis using Apln-CreER. *Nature Communications*, **2015**, 6, 6020	17.4	85
158	Cloning of capsulin, a basic helix-loop-helix factor expressed in progenitor cells of the pericardium and the coronary arteries. *Mechanisms of Development*, **1998**, 73, 33-43	1.7	85
157	Human T-cell gamma genes contain N segments and have marked junctional variability. *Nature*, **1986**, 322, 184-7	50.4	84
156	Neovascularization of ischemic tissues by gene delivery of the extracellular matrix protein Del-1. *Journal of Clinical Investigation*, **2003**, 112, 30-41	15.9	77
155	The embryonic angiogenic factor Del1 accelerates tumor growth by enhancing vascular formation. *Microvascular Research*, **2002**, 64, 148-61	3.7	76
154	Regulated expression of endothelial cell-derived lipase. *Biochemical and Biophysical Research Communications*, **2000**, 272, 90-3	3.4	75
153	Polymorphisms in hypoxia inducible factor 1 and the initial clinical presentation of coronary disease. *American Heart Journal*, **2007**, 154, 1035-42	4.9	72
152	Integrative functional genomics identifies regulatory mechanisms at coronary artery disease loci. *Nature Communications*, **2016**, 7, 12092	17.4	70
151	Identification and validation of N-acetyltransferase 2 as an insulin sensitivity gene. *Journal of Clinical Investigation*, **2015**, 125, 1739-51	15.9	67

150	Signature patterns of gene expression in mouse atherosclerosis and their correlation to human coronary disease. *Physiological Genomics*, **2005**, 22, 213-26	3.6	67
149	De Novo and Rare Variants at Multiple Loci Support the Oligogenic Origins of Atrioventricular Septal Heart Defects. *PLoS Genetics*, **2016**, 12, e1005963	6	67
148	Differences in vascular bed disease susceptibility reflect differences in gene expression response to atherogenic stimuli. *Circulation Research*, **2006**, 98, 200-8	15.7	66
147	Molecular isolation and characterization of a soluble isoform of activated leukocyte cell adhesion molecule that modulates endothelial cell function. *Journal of Biological Chemistry*, **2004**, 279, 55315-23	5.4	66
146	Endothelial lipase: a new lipase on the block. *Journal of Lipid Research*, **2002**, 43, 1763-9	6.3	65
145	Statin and beta-blocker therapy and the initial presentation of coronary heart disease. *Annals of Internal Medicine*, **2006**, 144, 229-38	8	62
144	Coronary Artery Disease Associated Transcription Factor TCF21 Regulates Smooth Muscle Precursor Cells That Contribute to the Fibrous Cap. *PLoS Genetics*, **2015**, 11, e1005155	6	61
143	Developmental endothelial locus-1 (Del-1), a novel angiogenic protein: its role in ischemia. *Circulation*, **2004**, 109, 1314-9	16.7	60
142	Impact of combined deficiency of hepatic lipase and endothelial lipase on the metabolism of both high-density lipoproteins and apolipoprotein B-containing lipoproteins. *Circulation Research*, **2010**, 107, 357-64	15.7	56
141	Endothelial cell specific adhesion molecule (ESAM) localizes to platelet-platelet contacts and regulates thrombus formation in vivo. *Journal of Thrombosis and Haemostasis*, **2009**, 7, 1886-96	15.4	56
140	Network analysis of human in-stent restenosis. *Circulation*, **2006**, 114, 2644-54	16.7	56
139	Genetic epistasis of adiponectin and PPARgamma2 genotypes in modulation of insulin sensitivity: a family-based association study. *Diabetologia*, **2003**, 46, 977-83	10.3	56
138	Systems Genetics Analysis of Genome-Wide Association Study Reveals Novel Associations Between Key Biological Processes and Coronary Artery Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1712-22	9.4	55
137	Molecular signatures determining coronary artery and saphenous vein smooth muscle cell phenotypes: distinct responses to stimuli. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 1058-65	9.4	55
136	Alternative Progenitor Cells Compensate to Rebuild the Coronary Vasculature in Elabela- and Apj-Deficient Hearts. *Developmental Cell*, **2017**, 42, 655-666.e3	10.2	53
135	Disease-related growth factor and embryonic signaling pathways modulate an enhancer of TCF21 expression at the 6q23.2 coronary heart disease locus. *PLoS Genetics*, **2013**, 9, e1003652	6	52
134	Matrix metalloproteinase circulating levels, genetic polymorphisms, and susceptibility to acute myocardial infarction among patients with coronary artery disease. *American Heart Journal*, **2007**, 154, 1043-51	4.9	52
133	Genome-wide linkage scans for fasting glucose, insulin, and insulin resistance in the National Heart, Lung, and Blood Institute Family Blood Pressure Program: evidence of linkages to chromosome 7q36 and 19q13 from meta-analysis. *Diabetes*, **2005**, 54, 909-14	0.9	52

132	Glia maturation factor-gamma is preferentially expressed in microvascular endothelial and inflammatory cells and modulates actin cytoskeleton reorganization. *Circulation Research*, **2006**, 99, 424-33	15.7	51
131	Circulating chemokines accurately identify individuals with clinically significant atherosclerotic heart disease. *Physiological Genomics*, **2007**, 31, 402-9	3.6	50
130	FGD5 mediates proangiogenic action of vascular endothelial growth factor in human vascular endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 988-96	9.4	47
129	Common polymorphisms of ALOX5 and ALOX5AP and risk of coronary artery disease. *Human Genetics*, **2008**, 123, 399-408	6.3	47
128	Single-Cell Transcriptomic Profiling of Vascular Smooth Muscle Cell Phenotype Modulation in Marfan Syndrome Aortic Aneurysm. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 2195-2211	9.4	46
127	Immunohistochemical localization of endothelial cell-derived lipase in atherosclerotic human coronary arteries. *Cardiovascular Research*, **2003**, 58, 647-54	9.9	45
126	Endothelial APLNR regulates tissue fatty acid uptake and is essential for apelin's glucose-lowering effects. *Science Translational Medicine*, **2017**, 9,	17.5	44
125	Measurement of insulin-mediated glucose uptake: direct comparison of the modified insulin suppression test and the euglycemic, hyperinsulinemic clamp. *Metabolism: Clinical and Experimental* , **2013**, 62, 548-53	12.7	42
124	Phenotypic Modulation of Smooth Muscle Cells in Atherosclerosis Is Associated With Downregulation of LMOD1, SYNPO2, PDLIM7, PLN, and SYNM. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 1947-61	9.4	42
123	Genetic Regulatory Mechanisms of Smooth Muscle Cells Map to Coronary Artery Disease Risk Loci. *American Journal of Human Genetics*, **2018**, 103, 377-388	11	41
122	Endothelial lipase is increased by inflammation and promotes LDL uptake in macrophages. *Journal of Atherosclerosis and Thrombosis*, **2007**, 14, 192-201	4	40
121	Endothelial lipase modulates monocyte adhesion to the vessel wall. A potential role in inflammation. *Journal of Biological Chemistry*, **2004**, 279, 54032-8	5.4	40
120	TCF21 and the environmental sensor aryl-hydrocarbon receptor cooperate to activate a pro-inflammatory gene expression program in coronary artery smooth muscle cells. *PLoS Genetics*, **2017**, 13, e1006750	6	40
119	A near null variant of 12/15-LOX encoded by a novel SNP in ALOX15 and the risk of coronary artery disease. *Atherosclerosis*, **2008**, 198, 136-44	3.1	39
118	Cardiovascular Risks in Patients with COVID-19: Potential Mechanisms and Areas of Uncertainty. *Current Cardiology Reports*, **2020**, 22, 34	4.2	37
117	Epigenetic response to environmental stress: Assembly of BRG1-G9a/GLP-DNMT3 repressive chromatin complex on Myh6 promoter in pathologically stressed hearts. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2016**, 1863, 1772-81	4.9	37
116	Characterization of TCF21 Downstream Target Regions Identifies a Transcriptional Network Linking Multiple Independent Coronary Artery Disease Loci. *PLoS Genetics*, **2015**, 11, e1005202	6	36
115	Endothelial cell-selective adhesion molecule modulates atherosclerosis through plaque angiogenesis and monocyte-endothelial interaction. *Microvascular Research*, **2010**, 80, 179-87	3.7	35

114	Ontogeny of apelin and its receptor in the rodent gastrointestinal tract. *Regulatory Peptides*, **2009**, 158, 32-9		35
113	Proteomic profiles of serum inflammatory markers accurately predict atherosclerosis in mice. *Physiological Genomics*, **2006**, 25, 194-202	3.6	35
112	Biethnic comparisons of autosomal genomic scan for loci linked to plasma adiponectin in populations of Chinese and Japanese origin. *Journal of Clinical Endocrinology and Metabolism*, **2004**, 89, 5772-8	5.6	35
111	Tree-structured supervised learning and the genetics of hypertension. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10529-34	11.5	35
110	Pathological Ace2-to-Ace enzyme switch in the stressed heart is transcriptionally controlled by the endothelial Brg1-FoxM1 complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5628-35	11.5	35
109	Mouse strain-specific differences in vascular wall gene expression and their relationship to vascular disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 302-8	9.4	34
108	Apelin enhances directed cardiac differentiation of mouse and human embryonic stem cells. *PLoS ONE*, **2012**, 7, e38328	3.7	33
107	An evaluation of the metabolic syndrome in a large multi-ethnic study: the Family Blood Pressure Program. *Nutrition and Metabolism*, **2005**, 2, 17	4.6	32
106	Common ALDH2 genetic variants predict development of hypertension in the SAPPHIRe prospective cohort: gene-environmental interaction with alcohol consumption. *BMC Cardiovascular Disorders*, **2012**, 12, 58	2.3	31
105	Upregulation of the apelin-APJ pathway promotes neointima formation in the carotid ligation model in mouse. *Cardiovascular Research*, **2010**, 87, 156-65	9.9	30
104	Early somatic mosaicism is a rare cause of long-QT syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11555-11560	11.5	30
103	Increased expression of endothelial lipase in rat models of hypertension. *Cardiovascular Research*, **2005**, 66, 594-600	9.9	29
102	Two major QTLs and several others relate to factors of metabolic syndrome in the family blood pressure program. *Hypertension*, **2005**, 46, 751-7	8.5	29
101	Cardiovascular overexpression of transforming growth factor-beta(1) causes abnormal yolk sac vasculogenesis and early embryonic death. *Circulation Research*, **2000**, 86, 1024-30	15.7	29
100	Identification of ARIA regulating endothelial apoptosis and angiogenesis by modulating proteasomal degradation of cIAP-1 and cIAP-2. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 8227-32	11.5	28
99	Replication of genome-wide association signals of type 2 diabetes in Han Chinese in a prospective cohort. *Clinical Endocrinology*, **2012**, 76, 365-72	3.4	27
98	Admixture mapping of quantitative trait loci for blood lipids in African-Americans. *Human Molecular Genetics*, **2009**, 18, 2091-8	5.6	27
97	An autosomal genome-wide scan for loci linked to pre-diabetic phenotypes in nondiabetic Chinese subjects from the Stanford Asia-Pacific Program of Hypertension and Insulin Resistance Family Study. *Diabetes*, **2005**, 54, 1200-6	0.9	27

96	Coronary Disease-Associated Gene Inhibits Smooth Muscle Cell Differentiation by Blocking the Myocardin-Serum Response Factor Pathway. *Circulation Research*, **2020**, 126, 517-529	15.7	27
95	Coronary artery disease genes SMAD3 and TCF21 promote opposing interactive genetic programs that regulate smooth muscle cell differentiation and disease risk. *PLoS Genetics*, **2018**, 14, e1007681	6	27
94	TCF21 and AP-1 interact through epigenetic modifications to regulate coronary artery disease gene expression. *Genome Medicine*, **2019**, 11, 23	14.4	26
93	Increased bone mass in mice lacking the adipokine apelin. *Endocrinology*, **2013**, 154, 2069-80	4.8	26
92	Coronary risk assessment among intermediate risk patients using a clinical and biomarker based algorithm developed and validated in two population cohorts. *Current Medical Research and Opinion*, **2012**, 28, 1819-30	2.5	26
91	Trans-ethnic fine mapping identifies a novel independent locus at the 3Send of CDKAL1 and novel variants of several susceptibility loci for type 2 diabetes in a Han Chinese population. *Diabetologia*, **2013**, 56, 2619-28	10.3	25
90	Failure to replicate an association of SNPs in the oxidized LDL receptor gene (OLR1) with CAD. *BMC Medical Genetics*, **2008**, 9, 23	2.1	24
89	Genome-wide expression dynamics during mouse embryonic development reveal similarities to Drosophila development. *Developmental Biology*, **2005**, 288, 595-611	3.1	24
88	Octamer-dependent in vivo expression of the endothelial cell-specific TIE2 gene. *Journal of Biological Chemistry*, **1999**, 274, 20376-83	5.4	24
87	Nat1 Deficiency Is Associated with Mitochondrial Dysfunction and Exercise Intolerance in Mice. *Cell Reports*, **2016**, 17, 527-540	10.6	24
86	Trans-ethnic fine-mapping of genetic loci for body mass index in the diverse ancestral populations of the Population Architecture using Genomics and Epidemiology (PAGE) Study reveals evidence for multiple signals at established loci. *Human Genetics*, **2017**, 136, 771-800	6.3	23
85	Pancreatic Islet APJ Deletion Reduces Islet Density and Glucose Tolerance in Mice. *Endocrinology*, **2015**, 156, 2451-60	4.8	23
84	Inducible and selective transgene expression in murine vascular endothelium. *Physiological Genomics*, **2002**, 11, 99-107	3.6	23
83	Functional analysis of the endothelial cell-specific Tie2/Tek promoter identifies unique protein-binding elements. *Biochemical Journal*, **1998**, 330 (Pt 1), 335-43	3.8	23
82	Genetics and Genomics of Coronary Artery Disease. *Current Cardiology Reports*, **2016**, 18, 102	4.2	23
81	Susceptibility Loci for Clinical Coronary Artery Disease and Subclinical Coronary Atherosclerosis Throughout the Life-Course. *Circulation: Cardiovascular Genetics*, **2015**, 8, 803-11		22
80	Properties of structural variants and short tandem repeats associated with gene expression and complex traits. *Nature Communications*, **2020**, 11, 2927	17.4	22
79	Fine-mapping of lipid regions in global populations discovers ethnic-specific signals and refines previously identified lipid loci. *Human Molecular Genetics*, **2016**, 25, 5500-5512	5.6	22

78	Systems Genomics Identifies a Key Role for Hypocretin/Orexin Receptor-2 in Human Heart Failure. *Journal of the American College of Cardiology*, **2015**, 66, 2522-33	15.1	22
77	Apelin and its g protein-coupled receptor regulate cardiac development as well as cardiac function. *Developmental Cell*, **2007**, 12, 319-20	10.2	22
76	Peroxisome proliferator-activated receptor gamma polymorphisms and coronary heart disease. *PPAR Research*, **2009**, 2009, 543746	4.3	21
75	The negative correlation between plasma adiponectin and blood pressure depends on obesity: a family-based association study in SAPPHIRe. *American Journal of Hypertension*, **2008**, 21, 471-6	2.3	21
74	Environment-Sensing Aryl Hydrocarbon Receptor Inhibits the Chondrogenic Fate of Modulated Smooth Muscle Cells in Atherosclerotic Lesions. *Circulation*, **2020**, 142, 575-590	16.7	21
73	Advances in Transcriptomics: Investigating Cardiovascular Disease at Unprecedented Resolution. *Circulation Research*, **2018**, 122, 1200-1220	15.7	20
72	Targeted inactivation of endothelial lipase attenuates lung allergic inflammation through raising plasma HDL level and inhibiting eosinophil infiltration. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2009**, 296, L594-602	5.8	20
71	Identification of an endothelial cell-specific regulatory region in the murine endothelin-1 gene. *Journal of Biological Chemistry*, **1997**, 272, 32613-22	5.4	20
70	Directed endothelial differentiation of cultured embryonic yolk sac cells in vivo provides a novel cell-based system for gene therapy. *Stem Cells*, **1995**, 13, 541-7	5.8	20
69	Genomic profiling of human vascular cells identifies TWIST1 as a causal gene for common vascular diseases. *PLoS Genetics*, **2020**, 16, e1008538	6	20
68	Population-scale tissue transcriptomics maps long non-coding RNAs to complex disease. *Cell*, **2021**, 184, 2633-2648.e19	56.2	20
67	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
66	Sequence to Medical Phenotypes: A Framework for Interpretation of Human Whole Genome DNA Sequence Data. *PLoS Genetics*, **2015**, 11, e1005496	6	18
65	The impact of data quality on the identification of complex disease genes: experience from the Family Blood Pressure Program. *European Journal of Human Genetics*, **2006**, 14, 469-77	5.3	18
64	Genetics of Coronary Artery Disease in Taiwan: A Cardiometabochip Study by the Taichi Consortium. *PLoS ONE*, **2016**, 11, e0138014	3.7	18
63	FAM13A affects body fat distribution and adipocyte function. *Nature Communications*, **2020**, 11, 1465	17.4	17
62	The angiogenic factor Del1 prevents apoptosis of endothelial cells through integrin binding. *Surgery*, **2012**, 151, 296-305	3.6	17
61	Endothelial lipase is synthesized by hepatic and aorta endothelial cells and its expression is altered in apoE-deficient mice. *Journal of Lipid Research*, **2004**, 45, 1614-23	6.3	17

60	Physical inactivity is an important lifestyle determinant of insulin resistance in hypertensive patients. *Blood Pressure*, **2004**, 13, 355-61	1.7	17
59	Functional Assays to Screen and Dissect Genomic Hits: Doubling Down on the National Investment in Genomic Research. *Circulation Genomic and Precision Medicine*, **2018**, 11, e002178	5.2	16
58	Pancreatitis activates pancreatic apelin-APJ axis in mice. *American Journal of Physiology - Renal Physiology*, **2013**, 305, G139-50	5.1	16
57	Sagittal abdominal diameter is associated with insulin sensitivity in Chinese hypertensive patients and their siblings. *Journal of Human Hypertension*, **2003**, 17, 193-8	2.6	16
56	High-sensitivity cardiac troponin I and incident coronary heart disease among asymptomatic older adults. *Heart*, **2016**, 102, 1177-82	5.1	15
55	Sex-specific genetic architecture of human fatness in Chinese: the SAPPHIRe Study. *Human Genetics* , **2010**, 128, 501-13	6.3	15
54	Functional regulatory mechanism of smooth muscle cell-restricted LMOD1 coronary artery disease locus. *PLoS Genetics*, **2018**, 14, e1007755	6	15
53	Induced Pluripotent Stem Cell-Derived Endothelial Cells in Insulin Resistance and Metabolic Syndrome. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 2038-2042	9.4	14
52	FGF-1 enhanced cardiogenesis in differentiating embryonal carcinoma cell cultures, which was opposite to the effect of FGF-2. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 421-5	5.8	14
51	Generation of Vascular Smooth Muscle Cells From Induced Pluripotent Stem Cells: Methods, Applications, and Considerations. *Circulation Research*, **2021**, 128, 670-686	15.7	13
50	Genetic polymorphisms of PCSK2 are associated with glucose homeostasis and progression to type 2 diabetes in a Chinese population. *Scientific Reports*, **2015**, 5, 14380	4.9	12
49	Molecular cloning of nonsecreted endothelial cell-derived lipase isoforms. *Genomics*, **2004**, 83, 24-33	4.3	12
48	PCSK6 Is a Key Protease in the Control of Smooth Muscle Cell Function in Vascular Remodeling. *Circulation Research*, **2020**, 126, 571-585	15.7	12
47	Discovery and quality analysis of a comprehensive set of structural variants and short tandem repeats. *Nature Communications*, **2020**, 11, 2928	17.4	11
46	Dissecting the causal genetic mechanisms of coronary heart disease. *Current Atherosclerosis Reports* , **2014**, 16, 406	6	10
45	Role of endothelial cell-selective adhesion molecule in hematogeneous metastasis. *Microvascular Research*, **2010**, 80, 133-41	3.7	10
44	Functional activity of the CFTR Cl- channel in human myocardium. *Heart and Vessels*, **1997**, 12, 255-61	2.1	10
43	Linkage analysis incorporating gene-age interactions identifies seven novel lipid loci: the Family Blood Pressure Program. *Atherosclerosis*, **2014**, 235, 84-93	3.1	9

42	The effects of the renin-angiotensin-aldosterone system gene polymorphisms on insulin resistance in hypertensive families. *JRAAS - Journal of the Renin-Angiotensin-Aldosterone System*, **2012**, 13, 446-54	3	9
41	CRP-level-associated polymorphism rs1205 within the CRP gene is associated with 2-hour glucose level: The SAPPHIRe study. *Scientific Reports*, **2017**, 7, 7987	4.9	8
40	Molecular mechanisms of coronary disease revealed using quantitative trait loci for TCF21 binding, chromatin accessibility, and chromosomal looping. *Genome Biology*, **2020**, 21, 135	18.3	7
39	Genome-wide copy number variation analysis identified deletions in SFMBT1 associated with fasting plasma glucose in a Han Chinese population. *BMC Genomics*, **2017**, 18, 591	4.5	7
38	Overexpression of the Del1 gene causes dendritic branching in the mouse mesentery. *The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology*, **2005**, 287, 1165-75		7
37	Apelin increases atrial conduction velocity, refractoriness, and prevents inducibility of atrial fibrillation. *JCI Insight*, **2020**, 5,	9.9	7
36	Predictive network modeling in human induced pluripotent stem cells identifies key driver genes for insulin responsiveness. *PLoS Computational Biology*, **2020**, 16, e1008491	5	7
35	The combination of 9p21.3 genotype and biomarker profile improves a peripheral artery disease risk prediction model. *Vascular Medicine*, **2014**, 19, 3-8	3.3	6
34	Effect of Common Genetic Variants of Growth Arrest-Specific 6 Gene on Insulin Resistance, Obesity and Type 2 Diabetes in an Asian Population. *PLoS ONE*, **2015**, 10, e0135681	3.7	5
33	The role of insulin as a key regulator of seeding, proliferation, and mRNA transcription of human pluripotent stem cells. *Stem Cell Research and Therapy*, **2019**, 10, 228	8.3	4
32	Clinical utility of a novel coronary heart disease risk-assessment test to further classify intermediate-risk patients. *Clinical Cardiology*, **2013**, 36, 621-7	3.3	4
31	Human Coronary Plaque T Cells Are Clonal and Cross-React to Virus and Self.. *Circulation Research*, **2022**, 101161CIRCRESAHA121320090	15.7	4
30	Stanford Cardiovascular Institute. *Circulation Research*, **2019**, 124, 1420-1424	15.7	3
29	Transcriptomic profiling of experimental arterial injury reveals new mechanisms and temporal dynamics in vascular healing response. *JVS Vascular Science*, **2020**, 1, 13-27	1.3	3
28	CRISPR-Cas9-mediated knockout of SPRY2 in human hepatocytes leads to increased glucose uptake and lipid droplet accumulation. *BMC Endocrine Disorders*, **2019**, 19, 115	3.3	3
27	Circulating peptide prevents preeclampsia. *Science*, **2017**, 357, 643-644	33.3	3
26	Endothelin Type A Receptor Genotype is a Determinant of Quantitative Traits of Metabolic Syndrome in Asian Hypertensive Families: A SAPPHIRe Study. *Frontiers in Endocrinology*, **2013**, 4, 172	5.7	3
25	Use of high throughput genomic tools for the study of endothelial cell biology. *Lymphatic Research and Biology*, **2003**, 1, 133-45	2.3	3

24	Multi-omics analysis identifies CpGs near G6PC2 mediating the effects of genetic variants on fasting glucose. *Diabetologia*, **2021**, 64, 1613-1625	10.3	3
23	AMPA-Type Glutamate Receptors Associated With Vascular Smooth Muscle Cell Subpopulations in Atherosclerosis and Vascular Injury. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 655869	5.4	3
22	An integrated approach to identify environmental modulators of genetic risk factors for complex traits. *American Journal of Human Genetics*, **2021**, 108, 1866-1879	11	3
21	Detailed Functional Characterization of a Waist-Hip Ratio Locus in 7p15.2 Defines an Enhancer Controlling Adipocyte Differentiation. *IScience*, **2019**, 20, 42-59	6.1	2
20	Gene Is Associated With Triglyceride Levels In Subjects With Family History Of Hypertension From The SAPPHIRe And TWB Projects. *International Journal of Medical Sciences*, **2018**, 15, 1035-1042	3.7	2
19	Frontiers in nephrology: genomic approaches to understanding the molecular basis of atherosclerosis. *Journal of the American Society of Nephrology: JASN*, **2007**, 18, 2853-62	12.7	2
18	ZEB2 Shapes the Epigenetic Landscape of Atherosclerosis.. *Circulation*, **2022**,	16.7	2
17	Insulin resistance: regression and clustering. *PLoS ONE*, **2014**, 9, e94129	3.7	2
16	Genomic integrity of human induced pluripotent stem cells across nine studies in the NHLBI NextGen program. *Stem Cell Research*, **2020**, 46, 101803	1.6	2
15	Enhancer connectome in primary human cells reveals target genes of disease-associated DNA elements		2
14	Study of exonic variation identifies incremental information regarding lipid-related and coronary heart disease genes. *Circulation Research*, **2014**, 115, 478-80	15.7	1
13	Distribution of the number of false discoveries in large-scale family-based association testing with application to the association between PTPN1 and hypertension and obesity. *Human Genetics*, **2011**, 129, 425-32	6.3	1
12	Absence of evidence for an association between resistin gene variants and insulin resistance in an Asian population with low and high blood pressure. *Diabetes Research and Clinical Practice*, **2008**, 81, 231-7	7.4	1
11	Size fractionation using sucrose gradients. *Current Protocols in Molecular Biology*, **2001**, Chapter 5, Unit5.3	3.9	1
10	Genetic regulatory mechanisms of smooth muscle cells map to coronary artery disease risk loci		1
9	The environment-sensing aryl-hydrocarbon receptor inhibits the chondrogenic fate of modulated smooth muscle cells in atherosclerotic lesions		1
8	Cell-specific chromatin landscape of human coronary artery resolves regulatory mechanisms of disease risk		1
7	Osteomodulin attenuates smooth muscle cell osteogenic transition in vascular calcification.. *Clinical and Translational Medicine*, **2022**, 12, e682	5.7	1

6	Smad3 regulates smooth muscle cell fate and mediates adverse remodeling and calcification of the atherosclerotic plaque **2022**, 1, 322-333		1
5	Integration of genetic colocalizations with physiological and pharmacological perturbations identifies cardiometabolic disease genes.. *Genome Medicine*, **2022**, 14, 31	14.4	0
4	Plating and transferring bacteriophage libraries. *Current Protocols in Molecular Biology*, **2001**, Chapter 6, Unit6.1	2.9	
3	Production of a genomic DNA library. *Current Protocols in Molecular Biology*, **2001**, Chapter 5, Unit5.7	2.9	
2	Purification of bacteriophage clones. *Current Protocols in Molecular Biology*, **2001**, Chapter 6, Unit6.5	2.9	
1	Size fractionation using agarose gels. *Current Protocols in Molecular Biology*, **2001**, Chapter 5, Unit5.4	2.9	