

Issei Komuro

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

540
papers

23,408
citations

79
h-index

141
g-index

590
ext. papers

27,005
ext. citations

6.2
avg, IF

6.43
L-index

#	Paper	IF	Citations
540	Endothelial cell senescence in human atherosclerosis: role of telomere in endothelial dysfunction. <i>Circulation</i> , 2002 , 105, 1541-4	16.7	765
539	Mitochondrial DNA that escapes from autophagy causes inflammation and heart failure. <i>Nature</i> , 2012 , 485, 251-5	50.4	762
538	p53-induced inhibition of Hif-1 causes cardiac dysfunction during pressure overload. <i>Nature</i> , 2007 , 446, 444-8	50.4	696
537	Endothelin stimulates c-fos and c-myc expression and proliferation of vascular smooth muscle cells. <i>FEBS Letters</i> , 1988 , 238, 249-52	3.8	587
536	A crucial role for adipose tissue p53 in the regulation of insulin resistance. <i>Nature Medicine</i> , 2009 , 15, 1082-7	50.5	559
535	Mechanical stress activates angiotensin II type 1 receptor without the involvement of angiotensin II. <i>Nature Cell Biology</i> , 2004 , 6, 499-506	23.4	534
534	Adult cardiac Sca-1-positive cells differentiate into beating cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 11384-91	5.4	502
533	G-CSF prevents cardiac remodeling after myocardial infarction by activating the Jak-Stat pathway in cardiomyocytes. <i>Nature Medicine</i> , 2005 , 11, 305-11	50.5	479
532	Tbx5 associates with Nkx2-5 and synergistically promotes cardiomyocyte differentiation. <i>Nature Genetics</i> , 2001 , 28, 276-80	36.3	473
531	Developmental stage-specific biphasic roles of Wnt/beta-catenin signaling in cardiomyogenesis and hematopoiesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19812-7	11.5	376
530	Increased insulin sensitivity and hypoglycaemia in mice lacking the p85 alpha subunit of phosphoinositide 3-kinase. <i>Nature Genetics</i> , 1999 , 21, 230-5	36.3	348
529	Roles of cardiac transcription factors in cardiac hypertrophy. <i>Circulation Research</i> , 2003 , 92, 1079-88	15.7	276
528	Cardiac side population cells have a potential to migrate and differentiate into cardiomyocytes in vitro and in vivo. <i>Journal of Cell Biology</i> , 2007 , 176, 329-41	7.3	269
527	Circulating p53-responsive microRNAs are predictive indicators of heart failure after acute myocardial infarction. <i>Circulation Research</i> , 2013 , 113, 322-6	15.7	267
526	Endothelin-1 is involved in mechanical stress-induced cardiomyocyte hypertrophy. <i>Journal of Biological Chemistry</i> , 1996 , 271, 3221-8	5.4	267
525	Akt negatively regulates the in vitro lifespan of human endothelial cells via a p53/p21-dependent pathway. <i>EMBO Journal</i> , 2004 , 23, 212-20	13	256
524	Tyrosine phosphorylation of the EGF receptor by the kinase Jak2 is induced by growth hormone. <i>Nature</i> , 1997 , 390, 91-6	50.4	252

523	Pathophysiology of myocardial reperfusion injury: preconditioning, postconditioning, and translational aspects of protective measures. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1723-41	5.2	248
522	JCS 2017/JHFS 2017 Guideline on Diagnosis and Treatment of Acute and Chronic Heart Failure - Digest Version. <i>Circulation Journal</i> , 2019 , 83, 2084-2184	2.9	228
521	Angiotensin II-induced insulin resistance is associated with enhanced insulin signaling. <i>Hypertension</i> , 2002 , 40, 872-9	8.5	224
520	Pressure overload induces cardiac hypertrophy in angiotensin II type 1A receptor knockout mice. <i>Circulation</i> , 1998 , 97, 1952-9	16.7	220
519	Angiotensin II induces premature senescence of vascular smooth muscle cells and accelerates the development of atherosclerosis via a p21-dependent pathway. <i>Circulation</i> , 2006 , 114, 953-60	16.7	217
518	Mechanical stretch activates the stress-activated protein kinases in cardiac myocytes. <i>FASEB Journal</i> , 1996 , 10, 631-6	0.9	211
517	Bone morphogenetic proteins induce cardiomyocyte differentiation through the mitogen-activated protein kinase kinase TAK1 and cardiac transcription factors Csx/Nkx-2.5 and GATA-4. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7096-105	4.8	210
516	Angiotensin II partly mediates mechanical stress-induced cardiac hypertrophy. <i>Circulation Research</i> , 1995 , 77, 258-65	15.7	204
515	Complement C1q activates canonical Wnt signaling and promotes aging-related phenotypes. <i>Cell</i> , 2012 , 149, 1298-313	56.2	200
514	Insulin prevents cardiomyocytes from oxidative stress-induced apoptosis through activation of PI3 kinase/Akt. <i>Circulation</i> , 2000 , 102, 2873-9	16.7	200
513	Angiotensin II type 1A receptor knockout mice display less left ventricular remodeling and improved survival after myocardial infarction. <i>Circulation</i> , 1999 , 100, 2093-9	16.7	178
512	Transplantation of cardiac progenitor cells ameliorates cardiac dysfunction after myocardial infarction in mice. <i>Journal of Clinical Investigation</i> , 2009 , 119, 2204-17	15.9	176
511	Cytokine therapy prevents left ventricular remodeling and dysfunction after myocardial infarction through neovascularization. <i>FASEB Journal</i> , 2004 , 18, 851-3	0.9	174
510	IGFBP-4 is an inhibitor of canonical Wnt signalling required for cardiogenesis. <i>Nature</i> , 2008 , 454, 345-9	50.4	171
509	Protein kinase C, but not tyrosine kinases or Ras, plays a critical role in angiotensin II-induced activation of Raf-1 kinase and extracellular signal-regulated protein kinases in cardiac myocytes. <i>Journal of Biological Chemistry</i> , 1996 , 271, 33592-7	5.4	171
508	Rho family small G proteins play critical roles in mechanical stress-induced hypertrophic responses in cardiac myocytes. <i>Circulation Research</i> , 1999 , 84, 458-66	15.7	168
507	Oxidative stress-induced signal transduction pathways in cardiac myocytes: involvement of ROS in heart diseases. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 789-94	8.4	167
506	Cardiac transcription factor Csx/Nkx2-5: Its role in cardiac development and diseases 2005 , 107, 252-68		161

505	Integrins play a critical role in mechanical stress-induced p38 MAPK activation. <i>Hypertension</i> , 2002 , 39, 233-8	8.5	161
504	Peroxisome proliferator-activated receptor activators inhibit lipopolysaccharide-induced tumor necrosis factor-alpha expression in neonatal rat cardiac myocytes. <i>Circulation Research</i> , 2000 , 87, 596-602	15.7	161
503	HIF-1/EPDK1 axis-induced active glycolysis plays an essential role in macrophage migratory capacity. <i>Nature Communications</i> , 2016 , 7, 11635	17.4	160
502	Ras induces vascular smooth muscle cell senescence and inflammation in human atherosclerosis. <i>Circulation</i> , 2003 , 108, 2264-9	16.7	160
501	Targeted disruption of Na ⁺ /Ca ²⁺ exchanger gene leads to cardiomyocyte apoptosis and defects in heartbeat. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36991-8	5.4	159
500	IL-1 β induces thrombopoiesis through megakaryocyte rupture in response to acute platelet needs. <i>Journal of Cell Biology</i> , 2015 , 209, 453-66	7.3	158
499	Critical roles of muscle-secreted angiogenic factors in therapeutic neovascularization. <i>Circulation Research</i> , 2006 , 98, 1194-202	15.7	156
498	Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1506-14	15.9	153
497	Adipose Natural Regulatory B Cells Negatively Control Adipose Tissue Inflammation. <i>Cell Metabolism</i> , 2013 , 18, 759-766	24.6	145
496	Conformational switch of angiotensin II type 1 receptor underlying mechanical stress-induced activation. <i>EMBO Reports</i> , 2008 , 9, 179-86	6.5	145
495	MAPK superfamily plays an important role in daunomycin-induced apoptosis of cardiac myocytes. <i>Circulation</i> , 1999 , 100, 2100-7	16.7	144
494	Role of ion channels and exchangers in mechanical stretch-induced cardiomyocyte hypertrophy. <i>Circulation Research</i> , 1998 , 82, 430-7	15.7	140
493	Cell type-specific angiotensin II-evoked signal transduction pathways: critical roles of Gbetagamma subunit, Src family, and Ras in cardiac fibroblasts. <i>Circulation Research</i> , 1998 , 82, 337-45	15.7	139
492	Chronic doxorubicin cardiotoxicity is mediated by oxidative DNA damage-ATM-p53-apoptosis pathway and attenuated by pitavastatin through the inhibition of Rac1 activity. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 698-705	5.8	135
491	Isoproterenol activates extracellular signal-regulated protein kinases in cardiomyocytes through calcineurin. <i>Circulation</i> , 2001 , 104, 102-8	16.7	134
490	p53-induced adipose tissue inflammation is critically involved in the development of insulin resistance in heart failure. <i>Cell Metabolism</i> , 2012 , 15, 51-64	24.6	132
489	beta-Adrenergic pathway induces apoptosis through calcineurin activation in cardiac myocytes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 34528-33	5.4	130
488	Calcineurin plays a critical role in pressure overload-induced cardiac hypertrophy. <i>Circulation</i> , 1999 , 100, 2449-54	16.7	129

487	Both Gs and Gi proteins are critically involved in isoproterenol-induced cardiomyocyte hypertrophy. <i>Journal of Biological Chemistry</i> , 1999 , 274, 9760-70	5.4	128
486	Smads, TAK1, and their common target ATF-2 play a critical role in cardiomyocyte differentiation. <i>Journal of Cell Biology</i> , 2001 , 153, 687-98	7.3	125
485	Ca ²⁺ /calmodulin-dependent kinase II and calcineurin play critical roles in endothelin-1-induced cardiomyocyte hypertrophy. <i>Journal of Biological Chemistry</i> , 2000 , 275, 15239-45	5.4	123
484	Therapeutic activation of signal transducer and activator of transcription 3 by interleukin-11 ameliorates cardiac fibrosis after myocardial infarction. <i>Circulation</i> , 2010 , 121, 684-91	16.7	119
483	Interleukin-6/interleukin-21 signaling axis is critical in the pathogenesis of pulmonary arterial hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E2677-86	11.5	117
482	Cardiac mast cells cause atrial fibrillation through PDGF-A-mediated fibrosis in pressure-overloaded mouse hearts. <i>Journal of Clinical Investigation</i> , 2010 , 120, 242-53	15.9	116
481	Dysbiosis and compositional alterations with aging in the gut microbiota of patients with heart failure. <i>PLoS ONE</i> , 2017 , 12, e0174099	3.7	115
480	Promotion of CHIP-mediated p53 degradation protects the heart from ischemic injury. <i>Circulation Research</i> , 2010 , 106, 1692-702	15.7	109
479	Calcineurin plays a critical role in the development of pressure overload-induced cardiac hypertrophy. <i>Circulation</i> , 2001 , 104, 97-101	16.7	109
478	Mechanical stretch induces hypertrophic responses in cardiac myocytes of angiotensin II type 1a receptor knockout mice. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24037-43	5.4	108
477	Angiotensin II stimulates c-Jun NH ₂ -terminal kinase in cultured cardiac myocytes of neonatal rats. <i>Circulation Research</i> , 1997 , 80, 139-46	15.7	108
476	Cardiomyocytes fuse with surrounding noncardiomyocytes and reenter the cell cycle. <i>Journal of Cell Biology</i> , 2004 , 167, 351-63	7.3	107
475	Cardiac nonmyocytes in the hub of cardiac hypertrophy. <i>Circulation Research</i> , 2015 , 117, 89-98	15.7	102
474	Molecular mechanism underlying inverse agonist of angiotensin II type 1 receptor. <i>Journal of Biological Chemistry</i> , 2006 , 281, 19288-95	5.4	102
473	Cardiomyocyte gene programs encoding morphological and functional signatures in cardiac hypertrophy and failure. <i>Nature Communications</i> , 2018 , 9, 4435	17.4	102
472	Angiotensin II type 1a receptor is involved in the occurrence of reperfusion arrhythmias. <i>Circulation</i> , 1998 , 97, 315-7	16.7	101
471	Norepinephrine induces the raf-1 kinase/mitogen-activated protein kinase cascade through both alpha 1- and beta-adrenoceptors. <i>Circulation</i> , 1997 , 95, 1260-8	16.7	98
470	Phosphatidylinositol 3-kinase-Akt pathway plays a critical role in early cardiomyogenesis by regulating canonical Wnt signaling. <i>Circulation Research</i> , 2005 , 97, 144-51	15.7	96

469	Brain-derived neurotrophic factor protects against cardiac dysfunction after myocardial infarction via a central nervous system-mediated pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1902-9	9.4	95
468	Context-dependent transcriptional cooperation mediated by cardiac transcription factors Csx/Nkx-2.5 and GATA-4. <i>Journal of Biological Chemistry</i> , 1999 , 274, 8231-9	5.4	95
467	Cardiac 12/15 lipoxygenase-induced inflammation is involved in heart failure. <i>Journal of Experimental Medicine</i> , 2009 , 206, 1565-74	16.6	94
466	Leukemia inhibitory factor enhances survival of cardiomyocytes and induces regeneration of myocardium after myocardial infarction. <i>Circulation</i> , 2003 , 108, 748-53	16.7	92
465	Angiopoietin-1 guides directional angiogenesis through integrin $\alpha 5$ signaling for recovery of ischemic retinopathy. <i>Science Translational Medicine</i> , 2013 , 5, 203ra127	17.5	90
464	Effects of G-CSF on cardiac remodeling after acute myocardial infarction in swine. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 325, 1353-9	3.4	88
463	Targeted disruption of the homeobox transcription factor Bapx1 results in lethal skeletal dysplasia with asplenia and gastroduodenal malformation. <i>Genes To Cells</i> , 2000 , 5, 499-513	2.3	87
462	Evaluation of intramitochondrial ATP levels identifies G0/G1 switch gene 2 as a positive regulator of oxidative phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 273-8	11.5	79
461	A heart-brain-kidney network controls adaptation to cardiac stress through tissue macrophage activation. <i>Nature Medicine</i> , 2017 , 23, 611-622	50.5	78
460	Reduced nitric oxide causes age-associated impairment of circadian rhythmicity. <i>Circulation Research</i> , 2008 , 102, 607-14	15.7	78
459	Novel point mutation in the cardiac transcription factor CSX/NKX2.5 associated with congenital heart disease. <i>Circulation Journal</i> , 2002 , 66, 561-3	2.9	77
458	Ca ²⁺ /calmodulin-dependent kinase I δ causes heart failure by accumulation of p53 in dilated cardiomyopathy. <i>Circulation</i> , 2010 , 122, 891-9	16.7	73
457	Beating is necessary for transdifferentiation of skeletal muscle-derived cells into cardiomyocytes. <i>FASEB Journal</i> , 2003 , 17, 1361-3	0.9	73
456	Acute pressure overload could induce hypertrophic responses in the heart of angiotensin II type 1a knockout mice. <i>Circulation Research</i> , 1998 , 82, 779-85	15.7	73
455	Higd1a is a positive regulator of cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1553-8	11.5	72
454	Mitochondrial aldehyde dehydrogenase 2 plays protective roles in heart failure after myocardial infarction via suppression of the cytosolic JNK/p53 pathway in mice. <i>Journal of the American Heart Association</i> , 2014 , 3, e000779	6	71
453	Long-term outcome of therapeutic neovascularization using peripheral blood mononuclear cells for limb ischemia. <i>Circulation: Cardiovascular Interventions</i> , 2009 , 2, 245-54	6	71
452	Structural basis for potent inhibition of SIRT2 deacetylase by a macrocyclic peptide inducing dynamic structural change. <i>Structure</i> , 2014 , 22, 345-52	5.2	69

451	A crucial role of a high mobility group protein HMGA2 in cardiogenesis. <i>Nature Cell Biology</i> , 2008 , 10, 567-74	23.4	68
450	Granulocyte macrophage colony-stimulating factor is required for aortic dissection/intramural haematoma. <i>Nature Communications</i> , 2015 , 6, 6994	17.4	66
449	gp130 plays a critical role in pressure overload-induced cardiac hypertrophy. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23115-9	5.4	66
448	Impact of Acute Kidney Injury on Early to Long-Term Outcomes in Patients Who Underwent Surgery for Type A Acute Aortic Dissection. <i>American Journal of Cardiology</i> , 2015 , 116, 463-8	3	63
447	Vertebrate homologs of tinman and bagpipe: roles of the homeobox genes in cardiovascular development. <i>Genesis</i> , 1998 , 22, 239-49		63
446	Granulocyte colony stimulating factor directly inhibits myocardial ischemia-reperfusion injury through Akt-endothelial NO synthase pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, e108-13	9.4	63
445	Sonic hedgehog is a critical mediator of erythropoietin-induced cardiac protection in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 2016-29	15.9	63
444	TGF- β Signaling-Related Genes and Thoracic Aortic Aneurysms and Dissections. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	62
443	Heat shock transcription factor 1 protects cardiomyocytes from ischemia/reperfusion injury. <i>Circulation</i> , 2003 , 108, 3024-30	16.7	62
442	Molecular cloning and characterization of human cardiac homeobox gene CSX1. <i>Circulation Research</i> , 1996 , 79, 920-9	15.7	61
441	The Relationship between Vascular Function and the Autonomic Nervous System. <i>Annals of Vascular Diseases</i> , 2014 , 7, 109-19	0.9	60
440	Csx/Nkx2-5 is required for homeostasis and survival of cardiac myocytes in the adult heart. <i>Journal of Biological Chemistry</i> , 2002 , 277, 24735-43	5.4	59
439	Feasibility and safety of granulocyte colony-stimulating factor treatment in patients with acute myocardial infarction. <i>International Journal of Cardiology</i> , 2007 , 122, 41-7	3.2	58
438	Pirfenidone exhibits cardioprotective effects by regulating myocardial fibrosis and vascular permeability in pressure-overloaded hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H512-22	5.2	57
437	ENPP2 contributes to adipose tissue expansion and insulin resistance in diet-induced obesity. <i>Diabetes</i> , 2014 , 63, 4154-64	0.9	57
436	Implication of cardiac remodeling in heart failure: mechanisms and therapeutic strategies. <i>Internal Medicine</i> , 2003 , 42, 465-9	1.1	57
435	Genetic basis of cardiomyopathy and the genotypes involved in prognosis and left ventricular reverse remodeling. <i>Scientific Reports</i> , 2018 , 8, 1998	4.9	56
434	Inhibition of semaphorin as a novel strategy for therapeutic angiogenesis. <i>Circulation Research</i> , 2010 , 106, 391-8	15.7	56

433	Ryanodine receptor type 2 is required for the development of pressure overload-induced cardiac hypertrophy. <i>Hypertension</i> , 2011 , 58, 1099-110	8.5	55
432	Myocardium-derived angiopoietin-1 is essential for coronary vein formation in the developing heart. <i>Nature Communications</i> , 2014 , 5, 4552	17.4	54
431	Pleiotropic effects of cytokines on acute myocardial infarction: G-CSF as a novel therapy for acute myocardial infarction. <i>Current Pharmaceutical Design</i> , 2003 , 9, 1121-7	3.3	53
430	Population-specific and trans-ancestry genome-wide analyses identify distinct and shared genetic risk loci for coronary artery disease. <i>Nature Genetics</i> , 2020 , 52, 1169-1177	36.3	51
429	A novel LIM protein Cal promotes cardiac differentiation by association with CSX/NKX2-5. <i>Journal of Cell Biology</i> , 2004 , 164, 395-405	7.3	50
428	G-CSF therapy for acute myocardial infarction. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 512-7	13.2	49
427	Cardioprotective effects of granulocyte colony-stimulating factor in swine with chronic myocardial ischemia. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 842-9	15.1	49
426	Significance of imbalance in the ratio of serum n-3 to n-6 polyunsaturated fatty acids in patients with acute coronary syndrome. <i>American Journal of Cardiology</i> , 2014 , 113, 441-5	3	48
425	Activated Eatenin in Foxp3 regulatory T cells links inflammatory environments to autoimmunity. <i>Nature Immunology</i> , 2018 , 19, 1391-1402	19.1	48
424	PDK1 coordinates survival pathways and beta-adrenergic response in the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8689-94	11.5	47
423	Growth hormone-induced tyrosine phosphorylation of EGF receptor as an essential element leading to MAP kinase activation and gene expression. <i>Endocrine Journal</i> , 1998 , 45 Suppl, S27-31	2.9	47
422	COUP-TF1 antagonizes Nkx2.5-mediated activation of the calreticulin gene during cardiac development. <i>Journal of Biological Chemistry</i> , 2001 , 276, 2797-801	5.4	46
421	DNA single-strand break-induced DNA damage response causes heart failure. <i>Nature Communications</i> , 2017 , 8, 15104	17.4	45
420	Macrophage hypoxia signaling regulates cardiac fibrosis via Oncostatin M. <i>Nature Communications</i> , 2019 , 10, 2824	17.4	45
419	A novel mechanism of mechanical stress-induced angiotensin II type 1-receptor activation without the involvement of angiotensin II. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2008 , 377, 393-9	3.4	45
418	Functional analyses of three Csx/Nkx-2.5 mutations that cause human congenital heart disease. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35291-6	5.4	45
417	Familial atrial septal defect and atrioventricular conduction disturbance associated with a point mutation in the cardiac homeobox gene CSX/NKX2-5 in a Japanese patient. <i>Japanese Circulation Journal</i> , 1999 , 63, 425-6		45
416	Association of Stat3 with HSF1 plays a critical role in G-CSF-induced cardio-protection against ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 1282-90	5.8	43

415	Calpain protects the heart from hemodynamic stress. <i>Journal of Biological Chemistry</i> , 2011 , 286, 32170-75.4	43
414	Molecular cloning of human homolog of yeast GAA1 which is required for attachment of glycosylphosphatidylinositols to proteins. <i>FEBS Letters</i> , 1998 , 421, 252-8	3.8 43
413	Overexpression of P104L mutant caveolin-3 in mice develops hypertrophic cardiomyopathy with enhanced contractility in association with increased endothelial nitric oxide synthase activity. <i>Human Molecular Genetics</i> , 2004 , 13, 151-7	5.6 43
412	Comparison of angiotensin II type 1-receptor blockers to regress pressure overload-induced cardiac hypertrophy in mice. <i>Hypertension Research</i> , 2010 , 33, 1289-97	4.7 42
411	Docking protein Gab1 is an essential component of postnatal angiogenesis after ischemia via HGF/c-met signaling. <i>Circulation Research</i> , 2011 , 108, 664-75	15.7 42
410	Effects of G-CSF on left ventricular remodeling and heart failure after acute myocardial infarction. <i>Journal of Molecular Medicine</i> , 2006 , 84, 185-93	5.5 42
409	Transcription factors Csx/Nkx2.5 and GATA4 distinctly regulate expression of Ca ²⁺ channels in neonatal rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 1045-53	5.8 41
408	Complement C1q-induced activation of E-cadherin signalling causes hypertensive arterial remodelling. <i>Nature Communications</i> , 2015 , 6, 6241	17.4 40
407	Early stage-specific inhibitions of cardiomyocyte differentiation and expression of Csx/Nkx-2.5 and GATA-4 by phosphatidylinositol 3-kinase inhibitor LY294002. <i>Experimental Cell Research</i> , 2003 , 291, 56-64	4.2 40
406	A cross-population atlas of genetic associations for 220 human phenotypes. <i>Nature Genetics</i> , 2021 , 53, 1415-1424	36.3 40
405	A genome-wide association study identifies PLCL2 and AP3D1-DOT1L-SF3A2 as new susceptibility loci for myocardial infarction in Japanese. <i>European Journal of Human Genetics</i> , 2015 , 23, 374-80	5.3 39
404	Activation of p70 S6 protein kinase is necessary for angiotensin II-induced hypertrophy in neonatal rat cardiac myocytes. <i>FEBS Letters</i> , 1996 , 379, 255-9	3.8 39
403	Heart failure and chronic kidney disease manifestation and mortality risk associations in type 2 diabetes: A large multinational cohort study. <i>Diabetes, Obesity and Metabolism</i> , 2020 , 22, 1607-1618	6.7 38
402	Protein kinase A and protein kinase C synergistically activate the Raf-1 kinase/mitogen-activated protein kinase cascade in neonatal rat cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 2491-501	5.8 38
401	The molecular mechanism of cardiac hypertrophy and failure. <i>Annals of the New York Academy of Sciences</i> , 1999 , 874, 38-48	6.5 38
400	Pathophysiology and Management of Cardiovascular Manifestations in Marfan and Loeys-Dietz Syndromes. <i>International Heart Journal</i> , 2016 , 57, 271-7	1.8 38
399	Pathophysiology and therapeutic potential of cardiac fibrosis. <i>Inflammation and Regeneration</i> , 2017 , 37, 13	10.9 37
398	Growth hormone signalling and apoptosis in neonatal rat cardiomyocytes. <i>Molecular and Cellular Biochemistry</i> , 2001 , 223, 35-46	4.2 37

397	A novel myocyte-specific gene Midori promotes the differentiation of P19CL6 cells into cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 35978-89	5-4	37
396	Assignment of cardiac homeobox gene CSX to human chromosome 5q34. <i>Genomics</i> , 1995 , 27, 204-6	4-3	37
395	A DPP-4 inhibitor suppresses fibrosis and inflammation on experimental autoimmune myocarditis in mice. <i>PLoS ONE</i> , 2015 , 10, e0119360	3-7	37
394	Heat shock transcription factor 1 protects heart after pressure overload through promoting myocardial angiogenesis in male mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 821-9	5-8	36
393	Rho plays an important role in angiotensin II-induced hypertrophic responses in cardiac myocytes. <i>Molecular and Cellular Biochemistry</i> , 2000 , 212, 177-182	4-2	36
392	Molecular mechanism of cardiac hypertrophy and development. <i>Japanese Circulation Journal</i> , 2001 , 65, 353-8		35
391	Long-Term Endothelin A Receptor Blockade Inhibits Electrical Remodeling in Cardiomyopathic Hamsters. <i>Circulation</i> , 2002 , 106, 613-619	16-7	35
390	Calcineurin inhibitor attenuates the development and induces the regression of cardiac hypertrophy in rats with salt-sensitive hypertension. <i>Circulation</i> , 2000 , 102, 1996-2004	16-7	35
389	A pain-mediated neural signal induces relapse in murine autoimmune encephalomyelitis, a multiple sclerosis model. <i>ELife</i> , 2015 , 4,	8-9	35
388	Continuous blockade of L-type Ca ²⁺ channels suppresses activation of calcineurin and development of cardiac hypertrophy in spontaneously hypertensive rats. <i>Hypertension Research</i> , 2002 , 25, 117-24	4-7	34
387	Cdc42 plays a critical role in assembly of sarcomere units in series of cardiac myocytes. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 806-10	3-4	34
386	Role of Na ⁺ -Ca ²⁺ exchanger in myocardial ischemia/reperfusion injury: evaluation using a heterozygous Na ⁺ -Ca ²⁺ exchanger knockout mouse model. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 849-53	3-4	33
385	Ataxia telangiectasia mutated in cardiac fibroblasts regulates doxorubicin-induced cardiotoxicity. <i>Cardiovascular Research</i> , 2016 , 110, 85-95	9-9	33
384	Current therapies and investigational drugs for peripheral arterial disease. <i>Hypertension Research</i> , 2016 , 39, 183-91	4-7	32
383	Calpain-dependent cleavage of N-cadherin is involved in the progression of post-myocardial infarction remodeling. <i>Journal of Biological Chemistry</i> , 2014 , 289, 19408-19	5-4	32
382	Ca ²⁺ entry mode of Na ⁺ /Ca ²⁺ exchanger as a new therapeutic target for heart failure with preserved ejection fraction. <i>European Heart Journal</i> , 2012 , 33, 1408-16	9-5	32
381	Stretch-modulation of second messengers: effects on cardiomyocyte ion transport. <i>Progress in Biophysics and Molecular Biology</i> , 2003 , 82, 57-66	4-7	32
380	Mechanisms of cardiac hypertrophy and injury--possible role of protein kinase C activation. <i>Japanese Circulation Journal</i> , 1991 , 55, 1149-57		32

379	HIF-1alpha signaling upstream of NKX2.5 is required for cardiac development in Xenopus. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11841-9	5.4	31
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147	Reverse J-shaped relationship between body mass index and in-hospital mortality of patients hospitalized for heart failure in Japan. <i>Heart and Vessels</i> , 2021 , 36, 383-392	2.1	3
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137	Direct left atrial ICE imaging guided ablation for atrial fibrillation without employing contrast medium. <i>International Journal of Cardiology</i> , 2016 , 203, 733-9	3.2	2
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125	Ionic mechanisms of ST segment elevation in electrocardiogram during acute myocardial infarction. <i>Journal of Physiological Sciences</i> , 2020 , 70, 36	2.3	2
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114	Clinical Impact of Copy Number Variation on the Genetic Diagnosis of Syndromic Aortopathies. <i>Circulation Genomic and Precision Medicine</i> , 2021 , 14, e003458	5.2	2
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106	Identification of the State of Maximal Hyperemia in the Assessment of Coronary Fractional Flow Reserve Using Non-Invasive Electrical Velocimetry. <i>International Heart Journal</i> , 2017 , 58, 365-370	1.8	1
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103	Cell Cycle Perturbation Induces Collagen Production in Fibroblasts. <i>International Heart Journal</i> , 2019 , 60, 958-963	1.8	1
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97	Cost-Effectiveness of Obstructive Sleep Apnea Screening and Treatment Before Catheter Ablation for Symptomatic Atrial Fibrillation. <i>Circulation Reports</i> , 2020 , 2, 507-516	0.7	1
96	Manual Thrombus Aspiration and its Procedural Stroke Risk in Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2021 , 10, e022258	6	1
95	Prospects for cardiovascular medicine using artificial intelligence. <i>Journal of Cardiology</i> , 2021 ,	3	1
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90	One-year estimated glomerular filtration rate decline as a risk factor of cardiovascular and renal end-points in high-risk Japanese patients. <i>Journal of Diabetes Investigation</i> , 2021 , 12, 1212-1219	3.9	1
89	The use of geographical analysis in assessing the impact of patients' home addresses on their participation in outpatient cardiac rehabilitation: a prospective cohort study. <i>Environmental Health and Preventive Medicine</i> , 2020 , 25, 76	4.2	1
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87	Surgical treatment for infective endocarditis in the ageing society: a nationwide retrospective study in Japan. <i>Open Heart</i> , 2021 , 8,	3	1
86	Early Initiation of Feeding and In-Hospital Outcomes in Patients Hospitalized for Acute Heart Failure. <i>American Journal of Cardiology</i> , 2021 , 145, 85-90	3	1
85	A Novel Technique of Balloon Pulmonary Angioplasty for the Treatment of Total Occlusion Lesions.. <i>CJC Open</i> , 2021 , 3, 1513-1515	2	1
84	Quantification of Abdominal Aortic Aneurysm Calcification Using the Agatston Method Can Predict Accelerated Expansion Rate. <i>Circulation Journal</i> , 2019 , 83, 689	2.9	1
83	Single-Cardiomyocyte RNA Sequencing to Dissect the Molecular Pathophysiology of the Heart. <i>Methods in Molecular Biology</i> , 2021 , 2320, 183-192	1.4	1
82	Case Report: A Case of Acute Cellular Rejection Due to Atopic Dermatitis Exacerbation 3 Years After Heart Transplantation. <i>Frontiers in Immunology</i> , 2021 , 12, 630051	8.4	1
81	Semiquantitative assessed proteinuria and risk of heart failure: Analysis of a nationwide epidemiological database. <i>Nephrology Dialysis Transplantation</i> , 2021 ,	4.3	1
80	Change in Cardiovascular Health Metrics and Risk for Proteinuria Development: Analysis of a Nationwide Population-Based Database.. <i>American Journal of Nephrology</i> , 2022 , 1-9	4.6	1
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77	Comparison of cardiovascular outcomes between SGLT2 inhibitors in diabetes mellitus.. <i>Cardiovascular Diabetology</i> , 2022 , 21, 67	8.7	1
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