Stefanie Dimmeler

List of Publications by Citations

429 papers	68,804 citations	137 h-index	253 g-index
472 ext. papers	75,321 ext. citations	11.4 avg, IF	7.81 L-index

#	Paper	IF	Citations
429	Activation of nitric oxide synthase in endothelial cells by Akt-dependent phosphorylation. *Nature*, **1999**, 399, 601-5	50.4	2980
428	Transplantation of Progenitor Cells and Regeneration Enhancement in Acute Myocardial Infarction (TOPCARE-AMI). *Circulation*, **2002**, 106, 3009-17	16.7	1851
427	Number and migratory activity of circulating endothelial progenitor cells inversely correlate with risk factors for coronary artery disease. *Circulation Research*, **2001**, 89, E1-7	15.7	1657
426	Intracoronary bone marrow-derived progenitor cells in acute myocardial infarction. *New England Journal of Medicine*, **2006**, 355, 1210-21	59.2	1578
425	Endothelial progenitor cells: characterization and role in vascular biology. *Circulation Research*, **2004**, 95, 343-53	15.7	1511
424	Essential role of endothelial nitric oxide synthase for mobilization of stem and progenitor cells. *Nature Medicine*, **2003**, 9, 1370-6	50.5	1162
423	Atheroprotective communication between endothelial cells and smooth muscle cells through miRNAs. *Nature Cell Biology*, **2012**, 14, 249-56	23.4	967
422	Circulating microRNAs in patients with coronary artery disease. *Circulation Research*, **2010**, 107, 677-84	15.7	966
421	MicroRNA-92a controls angiogenesis and functional recovery of ischemic tissues in mice. *Science*, **2009**, 324, 1710-3	33.3	953
420	Reduced number of circulating endothelial progenitor cells predicts future cardiovascular events: proof of concept for the clinical importance of endogenous vascular repair. *Circulation*, **2005**, 111, 2981-7	16.7	928
419	HMG-CoA reductase inhibitors (statins) increase endothelial progenitor cells via the PI 3-kinase/Akt pathway. *Journal of Clinical Investigation*, **2001**, 108, 391-397	15.9	903
418	Transcoronary transplantation of progenitor cells after myocardial infarction. *New England Journal of Medicine*, **2006**, 355, 1222-32	59.2	889
417	Increase in circulating endothelial progenitor cells by statin therapy in patients with stable coronary artery disease. *Circulation*, **2001**, 103, 2885-90	16.7	879
416	Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction: final one-year results of the TOPCARE-AMI Trial. *Journal of the American College of Cardiology*, **2004**, 44, 1690-9	15.1	796
415	Suppression of apoptosis by nitric oxide via inhibition of interleukin-1beta-converting enzyme (ICE)-like and cysteine protease protein (CPP)-32-like proteases. *Journal of Experimental Medicine*, **1997**, 185, 601-7	16.6	766
414	Erythropoietin is a potent physiologic stimulus for endothelial progenitor cell mobilization. *Blood*, **2003**, 102, 1340-6	2.2	720
413	Soluble CD40 ligand in acute coronary syndromes. *New England Journal of Medicine*, **2003**, 348, 1104-11	59.2	719

412	Role of microRNAs in vascular diseases, inflammation, and angiogenesis. *Cardiovascular Research*, **2008**, 79, 581-8	9.9	668
411	Role of Dicer and Drosha for endothelial microRNA expression and angiogenesis. *Circulation Research*, **2007**, 101, 59-68	15.7	662
410	Long noncoding RNA MALAT1 regulates endothelial cell function and vessel growth. *Circulation Research*, **2014**, 114, 1389-97	15.7	652
409	Soluble factors released by endothelial progenitor cells promote migration of endothelial cells and cardiac resident progenitor cells. *Journal of Molecular and Cellular Cardiology*, **2005**, 39, 733-42	5.8	634
408	Hyperglycemia inhibits endothelial nitric oxide synthase activity by posttranslational modification at the Akt site. *Journal of Clinical Investigation*, **2001**, 108, 1341-8	15.9	604
407	MicroRNA-34a regulates cardiac ageing and function. *Nature*, **2013**, 495, 107-10	50.4	586
406	Profoundly reduced neovascularization capacity of bone marrow mononuclear cells derived from patients with chronic ischemic heart disease. *Circulation*, **2004**, 109, 1615-22	16.7	562
405	Elevated C-reactive protein levels and impaired endothelial vasoreactivity in patients with coronary artery disease. *Circulation*, **2000**, 102, 1000-6	16.7	562
404	Phosphorylation of Thr(495) regulates Ca(2+)/calmodulin-dependent endothelial nitric oxide synthase activity. *Circulation Research*, **2001**, 88, E68-75	15.7	526
403	Relevance of monocytic features for neovascularization capacity of circulating endothelial progenitor cells. *Circulation*, **2003**, 108, 2511-6	16.7	501
402	Long noncoding RNAs in cardiovascular diseases. *Circulation Research*, **2015**, 116, 737-50	15.7	499
401	Critical reevaluation of endothelial progenitor cell phenotypes for therapeutic and diagnostic use. *Circulation Research*, **2012**, 110, 624-37	15.7	498
400	Improved clinical outcome after intracoronary administration of bone-marrow-derived progenitor cells in acute myocardial infarction: final 1-year results of the REPAIR-AMI trial. *European Heart Journal*, **2006**, 27, 2775-83	9.5	494
399	Unchain my heart: the scientific foundations of cardiac repair. *Journal of Clinical Investigation*, **2005**, 115, 572-583	15.9	480
398	Assessment of the tissue distribution of transplanted human endothelial progenitor cells by radioactive labeling. *Circulation*, **2003**, 107, 2134-9	16.7	477
397	Transdifferentiation of blood-derived human adult endothelial progenitor cells into functionally active cardiomyocytes. *Circulation*, **2003**, 107, 1024-32	16.7	472
396	SIRT1 controls endothelial angiogenic functions during vascular growth. *Genes and Development*, **2007**, 21, 2644-58	12.6	464
395	Endothelial adherens junctions control tight junctions by VE-cadherin-mediated upregulation of claudin-5. *Nature Cell Biology*, **2008**, 10, 923-34	23.4	459

394	Nox4 is a protective reactive oxygen species generating vascular NADPH oxidase. *Circulation Research*, **2012**, 110, 1217-25	15.7	452
393	Recent molecular discoveries in angiogenesis and antiangiogenic therapies in cancer. *Journal of Clinical Investigation*, **2013**, 123, 3190-200	15.9	427
392	Involvement of Foxo transcription factors in angiogenesis and postnatal neovascularization. *Journal of Clinical Investigation*, **2005**, 115, 2382-92	15.9	374
391	Fluid shear stress stimulates phosphorylation of Akt in human endothelial cells: involvement in suppression of apoptosis. *Circulation Research*, **1998**, 83, 334-41	15.7	360
390	HMG-CoA reductase inhibitors reduce senescence and increase proliferation of endothelial progenitor cells via regulation of cell cycle regulatory genes. *Circulation Research*, **2003**, 92, 1049-55	15.7	345
389	Redox regulatory and anti-apoptotic functions of thioredoxin depend on S-nitrosylation at cysteine 69. *Nature Cell Biology*, **2002**, 4, 743-9	23.4	341
388	Endothelial cell apoptosis in angiogenesis and vessel regression. *Circulation Research*, **2000**, 87, 434-9	15.7	340
387	Nitric oxide inhibits caspase-3 by S-nitrosation in vivo. *Journal of Biological Chemistry*, **1999**, 274, 6823-6	5.4	333
386	Therapeutic angiogenesis and vasculogenesis for ischemic disease: part II: cell-based therapies. *Circulation*, **2004**, 109, 2692-7	16.7	326
385	Cell isolation procedures matter: a comparison of different isolation protocols of bone marrow mononuclear cells used for cell therapy in patients with acute myocardial infarction. *European Heart Journal*, **2007**, 28, 766-72	9.5	317
384	Aging enhances the sensitivity of endothelial cells toward apoptotic stimuli: important role of nitric oxide. *Circulation Research*, **2001**, 89, 709-15	15.7	314
383	Serum level of the antiinflammatory cytokine interleukin-10 is an important prognostic determinant in patients with acute coronary syndromes. *Circulation*, **2003**, 107, 2109-14	16.7	313
382	HMG-CoA reductase inhibitors (statins) increase endothelial progenitor cells via the PI 3-kinase/Akt pathway. *Journal of Clinical Investigation*, **2001**, 108, 391-7	15.9	306
381	Akt-dependent phosphorylation of p21(Cip1) regulates PCNA binding and proliferation of endothelial cells. *Molecular and Cellular Biology*, **2001**, 21, 5644-57	4.8	301
380	Members of the microRNA-17-92 cluster exhibit a cell-intrinsic antiangiogenic function in endothelial cells. *Blood*, **2010**, 115, 4944-50	2.2	299
379	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. *Nature*, **2011**, 473, 234-8	50.4	298
378	Aging and disease as modifiers of efficacy of cell therapy. *Circulation Research*, **2008**, 102, 1319-30	15.7	296
377	Antioxidants inhibit nuclear export of telomerase reverse transcriptase and delay replicative senescence of endothelial cells. *Circulation Research*, **2004**, 94, 768-75	15.7	296

376	Circulating microRNAs: biomarkers or mediators of cardiovascular diseases?. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 2383-90	9.4	294
375	Mobilizing endothelial progenitor cells. *Hypertension*, **2005**, 45, 321-5	8.5	290
374	Long Noncoding RNAs: From Clinical Genetics to Therapeutic Targets?. *Journal of the American College of Cardiology*, **2016**, 67, 1214-1226	15.1	287
373	Antioxidative stress-associated genes in circulating progenitor cells: evidence for enhanced resistance against oxidative stress. *Blood*, **2004**, 104, 3591-7	2.2	286
372	Therapeutic angiogenesis and vasculogenesis for ischemic disease. Part I: angiogenic cytokines. *Circulation*, **2004**, 109, 2487-91	16.7	285
371	Phosphorylation of the endothelial nitric oxide synthase at ser-1177 is required for VEGF-induced endothelial cell migration. *FEBS Letters*, **2000**, 477, 258-62	3.8	284
370	Dephosphorylation targets Bcl-2 for ubiquitin-dependent degradation: a link between the apoptosome and the proteasome pathway. *Journal of Experimental Medicine*, **1999**, 189, 1815-22	16.6	284
369	Posttranslational modification of Bcl-2 facilitates its proteasome-dependent degradation: molecular characterization of the involved signaling pathway. *Molecular and Cellular Biology*, **2000**, 20, 1886-96	4.8	279
368	Impaired CXCR4 signaling contributes to the reduced neovascularization capacity of endothelial progenitor cells from patients with coronary artery disease. *Circulation Research*, **2005**, 97, 1142-51	15.7	278
367	Double-edged role of statins in angiogenesis signaling. *Circulation Research*, **2002**, 90, 737-44	15.7	277
366	Nitric oxide and apoptosis: another paradigm for the double-edged role of nitric oxide. *Nitric Oxide - Biology and Chemistry*, **1997**, 1, 275-81	5	272
365	Role of beta2-integrins for homing and neovascularization capacity of endothelial progenitor cells. *Journal of Experimental Medicine*, **2005**, 201, 63-72	16.6	267
364	Low-energy shock wave for enhancing recruitment of endothelial progenitor cells: a new modality to increase efficacy of cell therapy in chronic hind limb ischemia. *Circulation*, **2006**, 114, 2823-30	16.7	266
363	MicroRNA-29 in aortic dilation: implications for aneurysm formation. *Circulation Research*, **2011**, 109, 1115-9	15.7	262
362	High-mobility group box 1 activates integrin-dependent homing of endothelial progenitor cells. *Circulation Research*, **2007**, 100, 204-12	15.7	261
361	Cathepsin L is required for endothelial progenitor cell-induced neovascularization. *Nature Medicine*, **2005**, 11, 206-13	50.5	261
360	Homing and engraftment of progenitor cells: a prerequisite for cell therapy. *Journal of Molecular and Cellular Cardiology*, **2008**, 45, 514-22	5.8	260
359	Upregulation of superoxide dismutase and nitric oxide synthase mediates the apoptosis-suppressive effects of shear stress on endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 656-64	9.4	258

358	MicroRNAs in myocardial infarction. *Nature Reviews Cardiology*, **2015**, 12, 135-42	14.8	256
357	Identification and Characterization of Hypoxia-Regulated Endothelial Circular RNA. *Circulation Research*, **2015**, 117, 884-90	15.7	255
356	Shear stress inhibits apoptosis of human endothelial cells. *FEBS Letters*, **1996**, 399, 71-4	3.8	252
355	Cell-based therapy of myocardial infarction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 208-16	9.4	251
354	Nitric oxide activates telomerase and delays endothelial cell senescence. *Circulation Research*, **2000** , 87, 540-2	15.7	251
353	Cell-to-cell connection of endothelial progenitor cells with cardiac myocytes by nanotubes: a novel mechanism for cell fate changes?. *Circulation Research*, **2005**, 96, 1039-41	15.7	246
352	Characterization of levels and cellular transfer of circulating lipoprotein-bound microRNAs. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1392-400	9.4	244
351	Oxidized low-density lipoprotein induces apoptosis of human endothelial cells by activation of CPP32-like proteases. A mechanistic clue to the Qesponse to injuryQhypothesis. *Circulation*, **1997**, 95, 1760-3	16.7	242
350	Angiotensin II induces apoptosis of human endothelial cells. Protective effect of nitric oxide. *Circulation Research*, **1997**, 81, 970-6	15.7	240
349	Inhibition of microRNA-92a protects against ischemia/reperfusion injury in a large-animal model. *Circulation*, **2013**, 128, 1066-75	16.7	237
348	Vascular repair by circulating endothelial progenitor cells: the missing link in atherosclerosis?. *Journal of Molecular Medicine*, **2004**, 82, 671-7	5.5	235
347	Clinical outcome 2 years after intracoronary administration of bone marrow-derived progenitor cells in acute myocardial infarction. *Circulation: Heart Failure*, **2010**, 3, 89-96	7.6	227
346	Transcoronary concentration gradients of circulating microRNAs. *Circulation*, **2011**, 124, 1936-44	16.7	220
345	Nitric oxide-an endothelial cell survival factor. *Cell Death and Differentiation*, **1999**, 6, 964-8	12.7	220
344	Del-1, an endogenous leukocyte-endothelial adhesion inhibitor, limits inflammatory cell recruitment. *Science*, **2008**, 322, 1101-4	33.3	218
343	CD14+CD34low cells with stem cell phenotypic and functional features are the major source of circulating endothelial progenitors. *Circulation Research*, **2005**, 97, 314-22	15.7	218
342	Mitochondrial telomerase reverse transcriptase binds to and protects mitochondrial DNA and function from damage. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 929-35	9.4	216
341	A novel angiogenic pathway mediated by non-neuronal nicotinic acetylcholine receptors. *Journal of Clinical Investigation*, **2002**, 110, 527-536	15.9	216

340	The role of toll-like receptors (TLRs) in bacteria-induced maturation of murine dendritic cells (DCS). Peptidoglycan and lipoteichoic acid are inducers of DC maturation and require TLR2. *Journal of Biological Chemistry*, **2001**, 276, 25680-6	5.4	214
339	Regulation of endothelial cell survival and apoptosis during angiogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 887-93	9.4	208
338	Nonbone marrow-derived circulating progenitor cells contribute to postnatal neovascularization following tissue ischemia. *Circulation Research*, **2007**, 100, 581-9	15.7	207
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336	Targeting microRNA expression to regulate angiogenesis. *Trends in Pharmacological Sciences*, **2008**, 29, 12-5	13.2	204
335	Endothelial progenitor cells functional characterization. *Trends in Cardiovascular Medicine*, **2004**, 14, 318-22	6.9	201
334	Statins enhance migratory capacity by upregulation of the telomere repeat-binding factor TRF2 in endothelial progenitor cells. *Circulation*, **2004**, 110, 3136-42	16.7	197
333	Restoration of microvascular function in the infarct-related artery by intracoronary transplantation of bone marrow progenitor cells in patients with acute myocardial infarction: the Doppler Substudy of the Reinfusion of Enriched Progenitor Cells and Infarct Remodeling in Acute Myocardial Infarction (REPAIR-AMI) trial. *Circulation*, **2007**, 116, 366-74	16.7	194
332	Unchain my heart: the scientific foundations of cardiac repair. *Journal of Clinical Investigation*, **2005**, 115, 572-83	15.9	192
331	Screening and validation of lncRNAs and circRNAs as miRNA sponges. *Briefings in Bioinformatics*, **2017**, 18, 780-788	13.4	190
330	Insulin-mediated stimulation of protein kinase Akt: A potent survival signaling cascade for endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 402-9	9.4	189
329	Endothelial to Mesenchymal Transition in Cardiovascular Disease: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2019**, 73, 190-209	15.1	189
328	Hydrogen peroxide triggers nuclear export of telomerase reverse transcriptase via Src kinase family-dependent phosphorylation of tyrosine 707. *Molecular and Cellular Biology*, **2003**, 23, 4598-610	4.8	188
327	Ex vivo pretreatment of bone marrow mononuclear cells with endothelial NO synthase enhancer AVE9488 enhances their functional activity for cell therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14537-41	11.5	187
326	Transcoronary transplantation of functionally competent BMCs is associated with a decrease in natriuretic peptide serum levels and improved survival of patients with chronic postinfarction heart failure: results of the TOPCARE-CHD Registry. *Circulation Research*, **2007**, 100, 1234-41	15.7	187
325	p38 mitogen-activated protein kinase downregulates endothelial progenitor cells. *Circulation*, **2005**, 111, 1184-91	16.7	186
324	MicroRNA-27a/b controls endothelial cell repulsion and angiogenesis by targeting semaphorin 6A. *Blood*, **2012**, 119, 1607-16	2.2	185
323	Nicotine strongly activates dendritic cell-mediated adaptive immunity: potential role for progression of atherosclerotic lesions. *Circulation*, **2003**, 107, 604-11	16.7	184

322	Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction (TOPCARE-AMI): final 5-year results suggest long-term safety and efficacy. *Clinical Research in Cardiology*, **2011**, 100, 925-34	6.1	183
321	Intraarterial administration of bone marrow mononuclear cells in patients with critical limb ischemia: a randomized-start, placebo-controlled pilot trial (PROVASA). *Circulation: Cardiovascular Interventions*, **2011**, 4, 26-37	6	179
320	Antioxidant effects of statins via S-nitrosylation and activation of thioredoxin in endothelial cells: a novel vasculoprotective function of statins. *Circulation*, **2004**, 110, 856-61	16.7	179
319	Inhibitors of histone deacetylation downregulate the expression of endothelial nitric oxide synthase and compromise endothelial cell function in vasorelaxation and angiogenesis. *Circulation Research*, **2002**, 91, 837-44	15.7	179
318	Novel therapeutic strategies targeting fibroblasts and fibrosis in heart disease. *Nature Reviews Drug Discovery*, **2016**, 15, 620-638	64.1	175
317	Shear stress inhibits H2O2-induced apoptosis of human endothelial cells by modulation of the glutathione redox cycle and nitric oxide synthase. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 3588-92	9.4	175
316	FOXO-dependent expression of the proapoptotic protein Bim: pivotal role for apoptosis signaling in endothelial progenitor cells. *FASEB Journal*, **2005**, 19, 974-6	0.9	175
315	Inhibition of microRNA-17 improves lung and heart function in experimental pulmonary hypertension. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 185, 409-19	10.2	171
314	Identification of a coronary vascular progenitor cell in the human heart. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 15885-90	11.5	170
313	CD40 ligand inhibits endothelial cell migration by increasing production of endothelial reactive oxygen species. *Circulation*, **2002**, 106, 981-6	16.7	170
312	Glycogen synthase kinase-3 couples AKT-dependent signaling to the regulation of p21Cip1 degradation. *Journal of Biological Chemistry*, **2002**, 277, 9684-9	5.4	170
311	Non-coding RNAs in cardiovascular diseases: diagnostic and therapeutic perspectives. *European Heart Journal*, **2018**, 39, 2704-2716	9.5	168
310	Pregnancy-associated plasma protein-A levels in patients with acute coronary syndromes: comparison with markers of systemic inflammation, platelet activation, and myocardial necrosis. *Journal of the American College of Cardiology*, **2005**, 45, 229-37	15.1	168
309	Cell type-specific expression of the putative SARS-CoV-2 receptor ACE2 in human hearts. *European Heart Journal*, **2020**, 41, 1804-1806	9.5	162
308	Laminar shear stress inhibits endothelial cell metabolism via KLF2-mediated repression of PFKFB3. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 137-45	9.4	160
307	Pilot trial on determinants of progenitor cell recruitment to the infarcted human myocardium. *Circulation*, **2008**, 118, 1425-32	16.7	159
306	Association of Mutations Contributing to Clonal Hematopoiesis With Prognosis in Chronic Ischemic Heart Failure. *JAMA Cardiology*, **2019**, 4, 25-33	16.2	159
305	111In-labeled CD34+ hematopoietic progenitor cells in a rat myocardial infarction model. *Journal of Nuclear Medicine*, **2004**, 45, 512-8	8.9	157

304	Ubiquitin-mediated degradation of the proapoptotic active form of bid. A functional consequence on apoptosis induction. *Journal of Biological Chemistry*, **2000**, 275, 21648-52	5.4	156
303	Adenosine-to-inosine RNA editing controls cathepsin S expression in atherosclerosis by enabling HuR-mediated post-transcriptional regulation. *Nature Medicine*, **2016**, 22, 1140-1150	50.5	155
302	Oxidized LDL inhibits vascular endothelial growth factor-induced endothelial cell migration by an inhibitory effect on the Akt/endothelial nitric oxide synthase pathway. *Circulation*, **2001**, 103, 2102-7	16.7	150
301	Intracoronary administration of bone marrow-derived progenitor cells improves left ventricular function in patients at risk for adverse remodeling after acute ST-segment elevation myocardial infarction: results of the Reinfusion of Enriched Progenitor cells And Infarct Remodeling in Acute Myocardial Infarction study (REPAIR-AMI) cardiac magnetic resonance imaging substudy. *American Heart Journal*, **2009**, 157, 541-7	4.9	149
300	Vitamin C inhibits endothelial cell apoptosis in congestive heart failure. *Circulation*, **2001**, 104, 2182-7	16.7	149
299	Sphingosine-1-phosphate stimulates the functional capacity of progenitor cells by activation of the CXCR4-dependent signaling pathway via the S1P3 receptor. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 275-82	9.4	146
298	Histone deacetylase activity is essential for the expression of HoxA9 and for endothelial commitment of progenitor cells. *Journal of Experimental Medicine*, **2005**, 201, 1825-35	16.6	146
297	Long Noncoding RNA MANTIS Facilitates Endothelial Angiogenic Function. *Circulation*, **2017**, 136, 65-79	16.7	145
296	Cyclosporin A inhibits apoptosis of human endothelial cells by preventing release of cytochrome C from mitochondria. *Circulation*, **1998**, 98, 1153-7	16.7	144
295	A pilot trial to assess potential effects of selective intracoronary bone marrow-derived progenitor cell infusion in patients with nonischemic dilated cardiomyopathy: final 1-year results of the transplantation of progenitor cells and functional regeneration enhancement pilot trial in patients with nonischemic dilated cardiomyopathy. *Circulation: Heart Failure*, **2009**, 2, 417-23	7.6	139
294	Emerging roles of SIRT1 in vascular endothelial homeostasis. *Cell Cycle*, **2008**, 7, 2117-22	4.7	138
293	Sustained delivery of SDF-1 from heparin-based hydrogels to attract circulating pro-angiogenic cells. *Biomaterials*, **2012**, 33, 4792-800	15.6	137
292	MicroRNAs in age-related diseases. *EMBO Molecular Medicine*, **2013**, 5, 180-90	12	137
291	Effect of shock wave-facilitated intracoronary cell therapy on LVEF in patients with chronic heart failure: the CELLWAVE randomized clinical trial. *JAMA - Journal of the American Medical Association*, **2013**, 309, 1622-31	27.4	136
290	Time course and mechanisms of circulating progenitor cell reduction in the natural history of type 2 diabetes. *Diabetes Care*, **2010**, 33, 1097-102	14.6	135
289	Role of paracrine factors in stem and progenitor cell mediated cardiac repair and tissue fibrosis. *Fibrogenesis and Tissue Repair*, **2008**, 1, 4		135
288	Novel methodologies for biomarker discovery in atherosclerosis. *European Heart Journal*, **2015**, 36, 2635-42	9.5	133
287	Class IIb HDAC6 regulates endothelial cell migration and angiogenesis by deacetylation of cortactin. *EMBO Journal*, **2011**, 30, 4142-56	13	133

286	Fas receptor signaling inhibits glycogen synthase kinase 3 beta and induces cardiac hypertrophy following pressure overload. *Journal of Clinical Investigation*, **2002**, 109, 373-81	15.9	132
285	Enhancing the outcome of cell therapy for cardiac repair: progress from bench to bedside and back. *Circulation*, **2010**, 121, 325-35	16.7	131
284	Interleukin-10 from transplanted bone marrow mononuclear cells contributes to cardiac protection after myocardial infarction. *Circulation Research*, **2008**, 103, 203-11	15.7	128
283	Translational strategies and challenges in regenerative medicine. *Nature Medicine*, **2014**, 20, 814-21	50.5	127
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281	Reactive oxygen species and vascular cell apoptosis in response to angiotensin II and pro-atherosclerotic factors. *Regulatory Peptides*, **2000**, 90, 19-25		127
280	Reduced microRNA-150 is associated with poor survival in pulmonary arterial hypertension. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 187, 294-302	10.2	126
279	Shear stress-induced endothelial cell migration involves integrin signaling via the fibronectin receptor subunits alpha(5) and beta(1). *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 69-75	9.4	125
278	Pro-atherogenic factors induce telomerase inactivation in endothelial cells through an Akt-dependent mechanism. *FEBS Letters*, **2001**, 493, 21-5	3.8	124
277	HDAC5 is a repressor of angiogenesis and determines the angiogenic gene expression pattern of endothelial cells. *Blood*, **2009**, 113, 5669-79	2.2	123
276	Vascular microRNAs. *Current Drug Targets*, **2010**, 11, 943-9	3	122
275	The lncRNA GATA6-AS epigenetically regulates endothelial gene expression via interaction with LOXL2. *Nature Communications*, **2018**, 9, 237	17.4	119
274	Inhibition of cytochrome P450 2C9 improves endothelium-dependent, nitric oxide-mediated vasodilatation in patients with coronary artery disease. *Circulation*, **2004**, 109, 178-83	16.7	119
273	A novel angiogenic pathway mediated by non-neuronal nicotinic acetylcholine receptors. *Journal of Clinical Investigation*, **2002**, 110, 527-36	15.9	119
272	MicroRNAs and stem cells: control of pluripotency, reprogramming, and lineage commitment. *Circulation Research*, **2012**, 110, 1014-22	15.7	118
271	Tumor necrosis factor antagonism with etanercept improves systemic endothelial vasoreactivity in patients with advanced heart failure. *Circulation*, **2001**, 104, 3023-5	16.7	118
270	Dephosphorylation of endothelial nitric oxide synthase contributes to the anti-angiogenic effects of endostatin. *FASEB Journal*, **2002**, 16, 706-8	0.9	118
269	Risk factors for coronary artery disease, circulating endothelial progenitor cells, and the role of HMG-CoA reductase inhibitors. *Kidney International*, **2005**, 67, 1672-6	9.9	116

268	Differential effects of short-term lipid lowering with ezetimibe and statins on endothelial function in patients with CAD: clinical evidence for Qleiotropic Qunctions of statin therapy. *European Heart Journal*, **2006**, 27, 1182-90	9.5	115
267	Regulation of telomerase activity and anti-apoptotic function by protein-protein interaction and phosphorylation. *FEBS Letters*, **2003**, 536, 180-6	3.8	115
266	Congestive heart failure induces endothelial cell apoptosis: protective role of carvedilol. *Journal of the American College of Cardiology*, **2000**, 36, 2081-9	15.1	114
265	Jumonji domain-containing protein 6 (Jmjd6) is required for angiogenic sprouting and regulates splicing of VEGF-receptor 1. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3276-81	11.5	111
264	Nfat and miR-25 cooperate to reactivate the transcription factor Hand2 in heart failure. *Nature Cell Biology*, **2013**, 15, 1282-93	23.4	110
263	Quantification of circulating endothelial progenitor cells using the modified ISHAGE protocol. *PLoS ONE*, **2010**, 5, e13790	3.7	110
262	Circular RNAs in heart failure. *European Journal of Heart Failure*, **2017**, 19, 701-709	12.3	109
261	Prognostic value of placental growth factor in patients with acute chest pain. *JAMA - Journal of the American Medical Association*, **2004**, 291, 435-41	27.4	109
260	Non-canonical Wnt signaling enhances differentiation of human circulating progenitor cells to cardiomyogenic cells. *Journal of Biological Chemistry*, **2005**, 280, 16838-42	5.4	109
259	Vitamin C and E prevent lipopolysaccharide-induced apoptosis in human endothelial cells by modulation of Bcl-2 and Bax. *European Journal of Pharmacology*, **1996**, 317, 407-11	5.3	108
258	The microRNA-17-92 cluster: still a miRacle?. *Cell Cycle*, **2009**, 8, 3866-73	4.7	105
257	Effects of granulocyte colony simulating factor on functional activities of endothelial progenitor cells in patients with chronic ischemic heart disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 2238-43	9.4	105
256	Accelerated telomere shortening in leukocyte subpopulations of patients with coronary heart disease: role of cytomegalovirus seropositivity. *Circulation*, **2009**, 120, 1364-72	16.7	103
255	Hematopoietic Deficiency of the Long Noncoding RNA MALAT1 Promotes Atherosclerosis and Plaque Inflammation. *Circulation*, **2019**, 139, 1320-1334	16.7	103
254	Role of the small GTPase Rap1 for integrin activity regulation in endothelial cells and angiogenesis. *Blood*, **2009**, 113, 488-97	2.2	102
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