

Michael P Simons

List of Publications by Year in descending order

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372
papers

37,940
citations

1980

101
h-index

3476

182
g-index

431
all docs

431
docs citations

431
times ranked

33520
citing authors

#	ARTICLE	IF	CITATIONS
1	Mosaic organization of DNA nucleotides. <i>Physical Review E</i> , 1994, 49, 1685-1689.	0.8	3,996
2	Long-range correlations in nucleotide sequences. <i>Nature</i> , 1992, 356, 168-170.	13.7	1,297
3	Mechanisms and regulation of endothelial VEGF receptor signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 611-625.	16.1	1,034
4	Antisense c-myc oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo. <i>Nature</i> , 1992, 359, 67-70.	13.7	773
5	Heterozygous Deficiency of PHD2 Restores Tumor Oxygenation and Inhibits Metastasis via Endothelial Normalization. <i>Cell</i> , 2009, 136, 839-851.	13.5	727
6	Pharmacological Treatment of Coronary Artery Disease With Recombinant Fibroblast Growth Factor-2. <i>Circulation</i> , 2002, 105, 788-793.	1.6	621
7	Long-range correlation properties of coding and noncoding DNA sequences: GenBank analysis. <i>Physical Review E</i> , 1995, 51, 5084-5091.	0.8	526
8	Divergent angiocrine signals from vascular niche balance liver regeneration and fibrosis. <i>Nature</i> , 2014, 505, 97-102.	13.7	496
9	Endothelial Cell Metabolism in Normal and Diseased Vasculature. <i>Circulation Research</i> , 2015, 116, 1231-1244.	2.0	462
10	Loss of SR-BI Expression Leads to the Early Onset of Occlusive Atherosclerotic Coronary Artery Disease, Spontaneous Myocardial Infarctions, Severe Cardiac Dysfunction, and Premature Death in Apolipoprotein E-deficient Mice. <i>Circulation Research</i> , 2002, 90, 270-276.	2.0	461
11	Endothelial-Derived Angiocrine Signals Induce and Sustain Regenerative Lung Alveolarization. <i>Cell</i> , 2011, 147, 539-553.	13.5	436
12	Role of Angiogenesis in Cardiovascular Disease. <i>Circulation</i> , 2005, 112, 1813-1824.	1.6	413
13	Angiogenesis. <i>Circulation</i> , 2005, 111, 1556-1566.	1.6	400
14	Local Perivascular Delivery of Basic Fibroblast Growth Factor in Patients Undergoing Coronary Bypass Surgery. <i>Circulation</i> , 1999, 100, 1865-1871.	1.6	398
15	Syndecans. <i>Circulation Research</i> , 2005, 96, 488-500.	2.0	397
16	Endothelial-to-mesenchymal transition drives atherosclerosis progression. <i>Journal of Clinical Investigation</i> , 2015, 125, 4514-4528.	3.9	394
17	Clinical Trials in Coronary Angiogenesis: Issues, Problems, Consensus. <i>Circulation</i> , 2000, 102, E73-86.	1.6	390
18	PR39, a peptide regulator of angiogenesis. <i>Nature Medicine</i> , 2000, 6, 49-55.	15.2	359

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19	The molecular basis of endothelial cell plasticity. <i>Nature Communications</i> , 2017, 8, 14361.	5.8	333
20	Anti-angiogenic cues from vascular basement membrane collagen. <i>Cancer Research</i> , 2000, 60, 2520-6.	0.4	324
21	ALK1 Signaling Inhibits Angiogenesis by Cooperating with the Notch Pathway. <i>Developmental Cell</i> , 2012, 22, 489-500.	3.1	322
22	Magnetic resonance mapping demonstrates benefits of VEGF-induced myocardial angiogenesis. <i>Nature Medicine</i> , 1995, 1, 1085-1089.	15.2	321
23	Angiogenesis in ischemic heart disease. <i>Nature Medicine</i> , 1997, 3, 158-164.	15.2	303
24	Therapeutic angiogenesis in cardiovascular disease. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 863-872.	21.5	287
25	Basic fibroblast growth factor improves myocardial function in chronically ischemic porcine hearts.. <i>Journal of Clinical Investigation</i> , 1994, 94, 623-630.	3.9	282
26	Results of a Double-Blind, Placebo-Controlled Study to Assess the Safety of Intramuscular Injection of Hepatocyte Growth Factor Plasmid to Improve Limb Perfusion in Patients With Critical Limb Ischemia. <i>Circulation</i> , 2008, 118, 58-65.	1.6	281
27	Effect of Intracoronary Recombinant Human Vascular Endothelial Growth Factor on Myocardial Perfusion. <i>Circulation</i> , 2000, 101, 118-121.	1.6	280
28	Human nonmuscle myosin heavy chains are encoded by two genes located on different chromosomes.. <i>Circulation Research</i> , 1991, 69, 530-539.	2.0	265
29	Macrophage skewing by Phd2 haplodeficiency prevents ischaemia by inducing arteriogenesis. <i>Nature</i> , 2011, 479, 122-126.	13.7	265
30	FGF Regulates TGF- β 2 Signaling and Endothelial-to-Mesenchymal Transition via Control of let-7 miRNA Expression. <i>Cell Reports</i> , 2012, 2, 1684-1696.	2.9	265
31	Fibroblast growth factor regulation of neovascularization. <i>Current Opinion in Hematology</i> , 2008, 15, 215-220.	1.2	259
32	The FGF system has a key role in regulating vascular integrity. <i>Journal of Clinical Investigation</i> , 2008, 118, 3355-3366.	3.9	257
33	FGF-dependent metabolic control of vascular development. <i>Nature</i> , 2017, 545, 224-228.	13.7	256
34	Linguistic Features of Noncoding DNA Sequences. <i>Physical Review Letters</i> , 1994, 73, 3169-3172.	2.9	251
35	Finite-size effects on long-range correlations: Implications for analyzing DNA sequences. <i>Physical Review E</i> , 1993, 47, 3730-3733.	0.8	247
36	Cell Communications in the Heart. <i>Circulation</i> , 2010, 122, 928-937.	1.6	243

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37	VEGF signaling inside vascular endothelial cells and beyond. <i>Current Opinion in Cell Biology</i> , 2012, 24, 188-193.	2.6	221
38	Thrombospondin Type 1 Repeats Interact with Matrix Metalloproteinase 2. <i>Journal of Biological Chemistry</i> , 2000, 275, 32167-32173.	1.6	217
39	Intracoronary basic fibroblast growth factor (FGF-2) in patients with severe ischemic heart disease: results of a Phase I open-label dose escalation study. <i>Journal of the American College of Cardiology</i> , 2000, 36, 2132-2139.	1.2	216
40	Therapeutic Angiogenesis With Basic Fibroblast Growth Factor: Technique and Early Results. <i>Annals of Thoracic Surgery</i> , 1998, 65, 1540-1544.	0.7	213
41	VEGF Receptor 2 Endocytic Trafficking Regulates Arterial Morphogenesis. <i>Developmental Cell</i> , 2010, 18, 713-724.	3.1	213
42	Angiocrine Factors Deployed by Tumor Vascular Niche Induce B Cell Lymphoma Invasiveness and Chemoresistance. <i>Cancer Cell</i> , 2014, 25, 350-365.	7.7	203
43	Intracoronary administration of recombinant human vascular endothelial growth factor to patients with coronary artery disease. <i>American Heart Journal</i> , 2001, 142, 872-880.	1.2	196
44	Endostatin: yeast production, mutants, and antitumor effect in renal cell carcinoma. <i>Cancer Research</i> , 1999, 59, 189-97.	0.4	196
45	The extracellular matrix and blood vessel formation: not just a scaffold. <i>Journal of Cellular and Molecular Medicine</i> , 2007, 11, 176-205.	1.6	188
46	The Neuropilin 1 Cytoplasmic Domain Is Required for VEGF-A-Dependent Arteriogenesis. <i>Developmental Cell</i> , 2013, 25, 156-168.	3.1	184
47	Cloning, Expression, and <i>In Vitro</i> Activity of Human Endostatin. <i>Biochemical and Biophysical Research Communications</i> , 1999, 258, 345-352.	1.0	181
48	Antisense nonmuscle myosin heavy chain and c-myc oligonucleotides suppress smooth muscle cell proliferation <i>in vitro</i> . <i>Circulation Research</i> , 1992, 70, 835-843.	2.0	175
49	Correlation approach to identify coding regions in DNA sequences. <i>Biophysical Journal</i> , 1994, 67, 64-70.	0.2	174
50	VEGF administration in chronic myocardial ischemia in pigs. <i>Cardiovascular Research</i> , 1998, 40, 272-281.	1.8	172
51	Angiogenesis-Dependent and Independent Phases of Intimal Hyperplasia. <i>Circulation</i> , 2004, 110, 2436-2443.	1.6	172
52	Endothelial TGF- β 2 signalling drives vascular inflammation and atherosclerosis. <i>Nature Metabolism</i> , 2019, 1, 912-926.	5.1	172
53	Syndecan-4 signaling at a glance. <i>Journal of Cell Science</i> , 2013, 126, 3799-804.	1.2	171
54	Synectin, syndecan-4 cytoplasmic domain binding PDZ protein, inhibits cell migration. <i>Journal of Cellular Physiology</i> , 2000, 184, 373-379.	2.0	164

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55	Therapeutic angiogenesis in cardiology using protein formulations. <i>Cardiovascular Research</i> , 2001, 49, 522-531.	1.8	164
56	Lacteal junction zippering protects against diet-induced obesity. <i>Science</i> , 2018, 361, 599-603.	6.0	162
57	Stretch-induced VEGF expression in the heart.. <i>Journal of Clinical Investigation</i> , 1997, 100, 18-24.	3.9	162
58	Fibroblast growth factor-specific modulation of cellular response by syndecan-4. <i>Journal of Cell Biology</i> , 2002, 157, 715-725.	2.3	160
59	Therapeutic Angiogenesis With Recombinant Fibroblast Growth Factor-2 Improves Stress and Rest Myocardial Perfusion Abnormalities in Patients With Severe Symptomatic Chronic Coronary Artery Disease. <i>Circulation</i> , 2000, 102, 1605-1610.	1.6	156
60	FGF-dependent regulation of VEGF receptor 2 expression in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2668-2678.	3.9	156
61	VEGF, flk-1, and flt-1 expression in a rat myocardial infarction model of angiogenesis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1996, 270, H1803-H1811.	1.5	155
62	Coronary vasoconstriction and catecholamine cardiomyopathy. <i>American Heart Journal</i> , 1985, 109, 297-304.	1.2	154
63	Vasa Vasorum in Normal and Diseased Arteries. <i>Circulation</i> , 2014, 129, 2557-2566.	1.6	154
64	Statistical mechanics in biology: how ubiquitous are long-range correlations?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 214-253.	1.2	153
65	Inhibition of ubiquitin-proteasome pathway-mediated β -degradation by a naturally occurring antibacterial peptide. <i>Journal of Clinical Investigation</i> , 2000, 106, 439-448.	3.9	147
66	Long-term effects of surgical angiogenic therapy with fibroblast growth factor 2 protein. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002, 124, 28-34.	0.4	145
67	Branching Morphogenesis. <i>Circulation Research</i> , 2008, 103, 784-795.	2.0	144
68	Generalized Lévy-walk model for DNA nucleotide sequences. <i>Physical Review E</i> , 1993, 47, 4514-4523.	0.8	142
69	Medical Device Development. <i>Circulation</i> , 2004, 109, 3068-3072.	1.6	142
70	Fractal landscapes and molecular evolution: modeling the myosin heavy chain gene family. <i>Biophysical Journal</i> , 1993, 65, 2673-2679.	0.2	141
71	Inhibition of Tumor Angiogenesis and Growth by a Small-Molecule Multi-FGF Receptor Blocker with Allosteric Properties. <i>Cancer Cell</i> , 2013, 23, 477-488.	7.7	138
72	ERK1/2-Akt1 crosstalk regulates arteriogenesis in mice and zebrafish. <i>Journal of Clinical Investigation</i> , 2010, 120, 1217-1228.	3.9	136

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73	Syndecan 4 is required for endothelial alignment in flow and atheroprotective signaling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17308-17313.	3.3	133
74	Syndecan-4-mediated signalling. Cellular Signalling, 2001, 13, 855-862.	1.7	132
75	Probucol prevents early coronary heart disease and death in the high-density lipoprotein receptor SR-BI/apolipoprotein E double knockout mouse. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7283-7288.	3.3	132
76	Fibroblast growth factor 2 endocytosis in endothelial cells proceed via syndecan-4-dependent activation of Rac1 and a Cdc42-dependent macropinocytic pathway. Journal of Cell Science, 2004, 117, 3189-3199.	1.2	129
77	A Brief Etymology of the Collateral Circulation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1854-1859.	1.1	129
78	Myocardial hypertrophy in the absence of external stimuli is induced by angiogenesis in mice. Journal of Clinical Investigation, 2007, 117, 3188-3197.	3.9	129
79	<scp>VEGF</scp> induced vascular growth leads to metabolic reprogramming and ischemia resistance in the heart. EMBO Molecular Medicine, 2014, 6, 307-321.	3.3	127
80	Selective Regulation of Arterial Branching Morphogenesis by Synectin. Developmental Cell, 2006, 10, 783-795.	3.1	125
81	Statistical properties of DNA sequences. Physica A: Statistical Mechanics and Its Applications, 1995, 221, 180-192.	1.2	124
82	Relation between Activated Smooth-Muscle Cells in Coronary-Artery Lesions and Restenosis after Atherectomy. New England Journal of Medicine, 1993, 328, 608-613.	13.9	121
83	Evolving revascularization approaches for myocardial ischemia. American Journal of Cardiology, 2003, 92, 9-17.	0.7	120
84	Translational Physiology: Porcine models of human coronary artery disease: implications for preclinical trials of therapeutic angiogenesis. Journal of Applied Physiology, 2003, 94, 1689-1701.	1.2	120
85	Endothelial Akt1 mediates angiogenesis by phosphorylating multiple angiogenic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12865-12870.	3.3	120
86	An Inside View: VEGF Receptor Trafficking and Signaling. Physiology, 2012, 27, 213-222.	1.6	118
87	Enhancement of Migration by Protein Kinase C β and Inhibition of Proliferation and Cell Cycle Progression by Protein Kinase C γ in Capillary Endothelial Cells. Journal of Biological Chemistry, 1997, 272, 7390-7397.	1.6	117
88	Neuropilin-1-VEGFR-2 Complexing Requires the PDZ-binding Domain of Neuropilin-1. Journal of Biological Chemistry, 2008, 283, 25110-25114.	1.6	117
89	Antisense Oligonucleotide Inhibition of PDGFR- β Receptor Subunit Expression Directs Suppression of Intimal Thickening. Circulation, 1997, 95, 669-676.	1.6	116
90	The quiescent endothelium: signalling pathways regulating organ-specific endothelial normalcy. Nature Reviews Cardiology, 2021, 18, 565-580.	6.1	115

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91	Smooth Muscle Cell Reprogramming in Aortic Aneurysms. <i>Cell Stem Cell</i> , 2020, 26, 542-557.e11.	5.2	114
92	Endothelial ERK signaling controls lymphatic fate specification. <i>Journal of Clinical Investigation</i> , 2013, 123, 1202-1215.	3.9	114
93	The Role of Syndecan Cytoplasmic Domain in Basic Fibroblast Growth Factor-dependent Signal Transduction. <i>Journal of Biological Chemistry</i> , 1999, 274, 24417-24424.	1.6	113
94	Copper chelation represses the vascular response to injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6700-6705.	3.3	113
95	State-of-the-Art Methods for Evaluation of Angiogenesis and Tissue Vascularization. <i>Circulation Research</i> , 2015, 116, e99-132.	2.0	113
96	Molecular Controls of Lymphatic VEGFR3 Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 421-429.	1.1	113
97	Phosphorylation of the Cytoplasmic Tail of Syndecan-4 Regulates Activation of Protein Kinase C δ . <i>Journal of Biological Chemistry</i> , 1998, 273, 25548-25551.	1.6	112
98	Proline- and Arginine-Rich Peptides Constitute a Novel Class of Allosteric Inhibitors of Proteasome Activity. <i>Biochemistry</i> , 2003, 42, 8663-8670.	1.2	112
99	Acceleration of Cardiovascular Disease by a Dysfunctional Prostacyclin Receptor Mutation. <i>Circulation Research</i> , 2008, 102, 986-993.	2.0	112
100	Micro computed tomography for vascular exploration. <i>Journal of Angiogenesis Research</i> , 2010, 2, 7.	2.9	112
101	Fractals in biology and medicine. <i>Chaos, Solitons and Fractals</i> , 1995, 6, 171-201.	2.5	111
102	Antisense proliferating cell nuclear antigen oligonucleotides inhibit intimal hyperplasia in a rat carotid artery injury model. <i>Journal of Clinical Investigation</i> , 1994, 93, 2351-2356.	3.9	111
103	Molecular Controls of Arterial Morphogenesis. <i>Circulation Research</i> , 2015, 116, 1712-1724.	2.0	109
104	Progress and Prospects: Gene Therapy Clinical Trials (Part 1). <i>Gene Therapy</i> , 2007, 14, 1439-1447.	2.3	106
105	Vascular endothelial growth factor administration in chronic myocardial ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1996, 270, H1791-H1802.	1.5	104
106	Scaling features of noncoding DNA. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 273, 1-18.	1.2	104
107	Regulation of protein kinase B/Akt activity and Ser473 phosphorylation by protein kinase C δ in endothelial cells. <i>Cellular Signalling</i> , 2004, 16, 951-957.	1.7	104
108	Syndecan-4 Regulates Subcellular Localization of mTOR Complex2 and Akt Activation in a PKC δ -Dependent Manner in Endothelial Cells. <i>Molecular Cell</i> , 2008, 32, 140-149.	4.5	103

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109	Pericardial effusion in patients with cancer: outcome with contemporary management strategies.. Heart, 1996, 75, 67-71.	1.2	102
110	Vascular Endothelial Growth Factor and Semaphorin Induce Neuropilin-1 Endocytosis via Separate Pathways. Circulation Research, 2008, 103, e71-9.	2.0	102
111	Systematic analysis of coding and noncoding DNA sequences using methods of statistical linguistics. Physical Review E, 1995, 52, 2939-2950.	0.8	101
112	Delayed Arteriogenesis in Hypercholesterolemic Mice. Circulation, 2005, 112, 2501-2509.	1.6	100
113	PR-39 and PR-11 peptides inhibit ischemia-reperfusion injury by blocking proteasome-mediated β -tubulin degradation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2612-H2618.	1.5	98
114	Efficacy of intracoronary or intravenous VEGF165 in a pig model of chronic myocardial ischemia. Journal of the American College of Cardiology, 2001, 37, 616-623.	1.2	96
115	Clustering Induces Redistribution of Syndecan-4 Core Protein into Raft Membrane Domains. Journal of Biological Chemistry, 2002, 277, 19946-19951.	1.6	96
116	Endothelial deletion of murine <i>Jag1</i> leads to valve calcification and congenital heart defects associated with Alagille syndrome. Development (Cambridge), 2012, 139, 4449-4460.	1.2	96
117	Regulation of Syndecan-4 Phosphorylation in Vivo. Journal of Biological Chemistry, 1998, 273, 10914-10918.	1.6	93
118	Intrapericardial delivery of fibroblast growth factor-2 induces neovascularization in a porcine model of chronic myocardial ischemia. Journal of Pharmacology and Experimental Therapeutics, 2000, 292, 795-802.	1.3	93
119	Abnormalities in the Regulators of Angiogenesis in Patients with Scleroderma. Journal of Rheumatology, 2009, 36, 576-582.	1.0	92
120	PTP1b Is a Physiologic Regulator of Vascular Endothelial Growth Factor Signaling in Endothelial Cells. Circulation, 2014, 130, 902-909.	1.6	90
121	<i>c-myc</i> in Vasculoproliferative Disease. Circulation Research, 1995, 76, 176-182.	2.0	90
122	Regulation of vascular integrity. Journal of Molecular Medicine, 2009, 87, 571-582.	1.7	89
123	Fibroblast growth factor receptor 1 is a key inhibitor of TGF β signaling in the endothelium. Science Signaling, 2014, 7, ra90.	1.6	89
124	Insights from Angiogenesis Trials Using Fibroblast Growth Factor for Advanced Arteriosclerotic Disease. Trends in Cardiovascular Medicine, 2003, 13, 116-122.	2.3	88
125	Expression of VEGF and angiopoietins-1 and -2 during ischemia-induced coronary angiogenesis. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H352-H358.	1.5	88
126	Phosphatidylinositol-4,5-bisphosphate Mediates the Interaction of Syndecan-4 with Protein Kinase C α . Biochemistry, 1999, 38, 15871-15877.	1.2	85

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127	PKC ζ Activates eNOS and Increases Arterial Blood Flow In Vivo. <i>Circulation Research</i> , 2005, 97, 482-487.	2.0	85
128	Intracoronary and intravenous administration of basic fibroblast growth factor: myocardial and tissue distribution. <i>Drug Metabolism and Disposition</i> , 1999, 27, 821-6.	1.7	85
129	Macrophage-Dependent Regulation of Syndecan Gene Expression. <i>Circulation Research</i> , 1997, 81, 785-796.	2.0	83
130	Non-canonical fibroblast growth factor signalling in angiogenesis. <i>Cardiovascular Research</i> , 2008, 78, 223-231.	1.8	82
131	Suppression of RhoG activity is mediated by a syndecan 4 ζ -synectin ζ -RhoGDI1 complex and is reversed by PKC ζ in a Rac1 activation pathway. <i>Journal of Cell Biology</i> , 2009, 186, 75-83.	2.3	82
132	Angiogenesis induced by acidic fibroblast growth factor as an alternative method of revascularization for chronic myocardial ischemia. <i>Surgery</i> , 1996, 120, 182-188.	1.0	81
133	Growth factor-induced therapeutic angiogenesis in the heart: protein therapy. <i>Cardiovascular Research</i> , 2005, 65, 649-655.	1.8	79
134	Angiopoietin-2 Secretion by Endothelial Cell Exosomes. <i>Journal of Biological Chemistry</i> , 2014, 289, 510-519.	1.6	79
135	Efficacy of intracoronary versus intravenous FGF-2 in a pig model of chronic myocardial ischemia. <i>Annals of Thoracic Surgery</i> , 2000, 70, 2113-2118.	0.7	77
136	A unifying concept in vascular health and disease. <i>Science</i> , 2018, 360, 270-271.	6.0	75
137	Protein Kinase C (PKC) ζ Regulates PKC ζ Activity in a Syndecan-4-dependent Manner. <i>Journal of Biological Chemistry</i> , 2002, 277, 20367-20371.	1.6	74
138	Netrin-1 controls sympathetic arterial innervation. <i>Journal of Clinical Investigation</i> , 2014, 124, 3230-3240.	3.9	74
139	Cleavage of syndecan-4 by ADAMTS1 provokes defects in adhesion. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 800-810.	1.2	72
140	Endothelial-to-Mesenchymal Transition, Vascular Inflammation, and Atherosclerosis. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 53.	1.1	72
141	NO triggers RGS4 degradation to coordinate angiogenesis and cardiomyocyte growth. <i>Journal of Clinical Investigation</i> , 2013, 123, 1718-1731.	3.9	72
142	Identification of driver genes for critical forms of COVID-19 in a deeply phenotyped young patient cohort. <i>Science Translational Medicine</i> , 2022, 14, eabj7521.	5.8	71
143	The Antiangiogenic Activity of rPAI-1 $\times 23$ Inhibits Vasa Vasorum and Growth of Atherosclerotic Plaque. <i>Circulation Research</i> , 2009, 104, 337-345.	2.0	70
144	Phosphorylation of VE-cadherin controls endothelial phenotypes via p120-catenin coupling and Rac1 activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H162-H172.	1.5	70

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145	Non-equilibrium dynamics as an indispensable characteristic of a healthy biological system. Integrative Psychological and Behavioral Science, 1994, 29, 283-293.	0.3	69
146	Increased responsiveness of hypoxic endothelial cells to FGF2 is mediated by HIF-1 α -dependent regulation of enzymes involved in synthesis of heparan sulfate FGF2-binding sites. Journal of Cell Science, 2002, 115, 1951-1959.	1.2	69
147	Basic fibroblast growth factor in a porcine model of chronic myocardial ischemia: a comparison of angiographic, echocardiographic and coronary flow parameters. Journal of Pharmacology and Experimental Therapeutics, 1997, 282, 385-90.	1.3	69
148	Syndecan-4 Clustering Induces Cell Migration in a PDZ-Dependent Manner. Circulation Research, 2006, 98, 1398-1404.	2.0	68
149	Evidence implicating nonmuscle myosin in restenosis. Use of in situ hybridization to analyze human vascular lesions obtained by directional atherectomy.. Circulation, 1992, 85, 543-553.	1.6	67
150	Fractal landscapes in biological systems: Long-range correlations in DNA and interbeat heart intervals. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 1-12.	1.2	66
151	Role of Venous Endothelial Cells in Developmental and Pathologic Angiogenesis. Circulation, 2021, 144, 1308-1322.	1.6	66
152	Long-range power-law correlations in condensed matter physics and biophysics. Physica A: Statistical Mechanics and Its Applications, 1993, 200, 4-24.	1.2	65
153	Fibroblast growth factor (FGF) signaling regulates transforming growth factor beta (TGF β)-dependent smooth muscle cell phenotype modulation. Scientific Reports, 2016, 6, 33407.	1.6	65
154	Angiographic methods to assess human coronary angiogenesis. American Heart Journal, 1999, 137, 169-179.	1.2	63
155	An anti-CD11/CD18 monoclonal antibody in patients with acute myocardial infarction having percutaneous transluminal coronary angioplasty (the FESTIVAL study). American Journal of Cardiology, 2001, 88, 482-487.	0.7	63
156	Diabetic Monocyte and Vascular Endothelial Growth Factor Signaling Impairment. Circulation, 2009, 120, 104-105.	1.6	63
157	Syndecan 4 Regulates FGFR1 Signaling in Endothelial Cells by Directing Macropinocytosis. Science Signaling, 2012, 5, ra36.	1.6	63
158	PR39 Inhibits Apoptosis in Hypoxic Endothelial Cells. Circulation, 2004, 109, 1660-1667.	1.6	62
159	Antiangiogenic plasma activity in patients with systemic sclerosis. Arthritis and Rheumatism, 2007, 56, 3448-3458.	6.7	61
160	Endothelial miR-17 \sim 192 cluster negatively regulates arteriogenesis via miRNA-19 repression of WNT signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12812-12817.	3.3	61
161	Smooth muscle <sc>FGF</sc> / <sc>TGF</sc> β cross talk regulates atherosclerosis progression. EMBO Molecular Medicine, 2016, 8, 712-728.	3.3	61
162	Myocyte-dependent Regulation of Endothelial Cell Syndecan-4 Expression. Journal of Biological Chemistry, 1999, 274, 14786-14790.	1.6	60

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163	Dll4-Notch signaling determines the formation of native arterial collateral networks and arterial function in mouse ischemia models. <i>Development (Cambridge)</i> , 2013, 140, 1720-1729.	1.2	60
164	Anti-C5a monoclonal antibody reduces cardiopulmonary bypass and cardioplegia-induced coronary endothelial dysfunction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1998, 116, 1060-1068.	0.4	59
165	N-terminal syndecan-2 domain selectively enhances 6-O heparan sulfate chains sulfation and promotes VEGFA165-dependent neovascularization. <i>Nature Communications</i> , 2019, 10, 1562.	5.8	59
166	Chronic mTOR activation induces a degradative smooth muscle cell phenotype. <i>Journal of Clinical Investigation</i> , 2020, 130, 1233-1251.	3.9	59
167	Endothelial Cell-Dependent Regulation of Arteriogenesis. <i>Circulation Research</i> , 2013, 113, 1076-1086.	2.0	58
168	Regulation of vascular smooth muscle cell proliferation by plasma membrane Ca(2+)-ATPase. <i>American Journal of Physiology - Cell Physiology</i> , 1997, 272, C1947-C1959.	2.1	57
169	Endothelial Nuclear Factor- κ B-Dependent Regulation of Arteriogenesis and Branching. <i>Circulation</i> , 2012, 126, 2589-2600.	1.6	57
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