

Peter Carmeliet

List of Publications by Citations

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694
papers

105,989
citations

153
h-index

309
g-index

780
ext. papers

119,263
ext. citations

14.1
avg, IF

8.58
L-index

#	Paper	IF	Citations
694	Angiogenesis in cancer and other diseases. <i>Nature</i> , 2000 , 407, 249-57	50.4	6972
693	Molecular mechanisms and clinical applications of angiogenesis. <i>Nature</i> , 2011 , 473, 298-307	50.4	3534
692	Abnormal blood vessel development and lethality in embryos lacking a single VEGF allele. <i>Nature</i> , 1996 , 380, 435-9	50.4	3429
691	Mechanisms of angiogenesis and arteriogenesis. <i>Nature Medicine</i> , 2000 , 6, 389-95	50.5	3271
690	Angiogenesis in health and disease. <i>Nature Medicine</i> , 2003 , 9, 653-60	50.5	3248
689	Angiogenesis in life, disease and medicine. <i>Nature</i> , 2005 , 438, 932-6	50.4	2734
688	Role of HIF-1alpha in hypoxia-mediated apoptosis, cell proliferation and tumour angiogenesis. <i>Nature</i> , 1998 , 394, 485-90	50.4	2294
687	Basic and therapeutic aspects of angiogenesis. <i>Cell</i> , 2011 , 146, 873-87	56.2	1836
686	Synergism between vascular endothelial growth factor and placental growth factor contributes to angiogenesis and plasma extravasation in pathological conditions. <i>Nature Medicine</i> , 2001 , 7, 575-83	50.5	1346
685	Hypoxia and inflammation. <i>New England Journal of Medicine</i> , 2011 , 364, 656-65	59.2	1302
684	Principles and mechanisms of vessel normalization for cancer and other angiogenic diseases. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 417-27	64.1	1102
683	Targeted deficiency or cytosolic truncation of the VE-cadherin gene in mice impairs VEGF-mediated endothelial survival and angiogenesis. <i>Cell</i> , 1999 , 98, 147-57	56.2	1067
682	uPAR: a versatile signalling orchestrator. <i>Nature Reviews Molecular Cell Biology</i> , 2002 , 3, 932-43	48.7	1025
681	VEGF as a key mediator of angiogenesis in cancer. <i>Oncology</i> , 2005 , 69 Suppl 3, 4-10	3.6	1006
680	Physiological consequences of loss of plasminogen activator gene function in mice. <i>Nature</i> , 1994 , 368, 419-24	50.4	954
679	Revascularization of ischemic tissues by PLGF treatment, and inhibition of tumor angiogenesis, arthritis and atherosclerosis by anti-Flt1. <i>Nature Medicine</i> , 2002 , 8, 831-40	50.5	916
678	Deletion of the hypoxia-response element in the vascular endothelial growth factor promoter causes motor neuron degeneration. <i>Nature Genetics</i> , 2001 , 28, 131-8	36.3	848

677	Common mechanisms of nerve and blood vessel wiring. <i>Nature</i> , 2005 , 436, 193-200	50.4	813
676	Role of PFKFB3-driven glycolysis in vessel sprouting. <i>Cell</i> , 2013 , 154, 651-63	56.2	798
675	VEGF is a modifier of amyotrophic lateral sclerosis in mice and humans and protects motoneurons against ischemic death. <i>Nature Genetics</i> , 2003 , 34, 383-94	36.3	712
674	Molecular mechanisms of blood vessel growth. <i>Cardiovascular Research</i> , 2001 , 49, 507-21	9.9	688
673	Gene prioritization through genomic data fusion. <i>Nature Biotechnology</i> , 2006 , 24, 537-44	44.5	685
672	Inhibition of plasminogen activators or matrix metalloproteinases prevents cardiac rupture but impairs therapeutic angiogenesis and causes cardiac failure. <i>Nature Medicine</i> , 1999 , 5, 1135-42	50.5	677
671	Anti-PlGF inhibits growth of VEGF(R)-inhibitor-resistant tumors without affecting healthy vessels. <i>Cell</i> , 2007 , 131, 463-75	56.2	666
670	Heterozygous deficiency of PHD2 restores tumor oxygenation and inhibits metastasis via endothelial normalization. <i>Cell</i> , 2009 , 136, 839-851	56.2	642
669	Role of PlGF in the intra- and intermolecular cross talk between the VEGF receptors Flt1 and Flk1. <i>Nature Medicine</i> , 2003 , 9, 936-43	50.5	631
668	A Sertoli cell-selective knockout of the androgen receptor causes spermatogenic arrest in meiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1327-32	11.5	615
667	The proteolytic activity of tissue-plasminogen activator enhances NMDA receptor-mediated signaling. <i>Nature Medicine</i> , 2001 , 7, 59-64	50.5	611
666	Phenotype molding of stromal cells in the lung tumor microenvironment. <i>Nature Medicine</i> , 2018 , 24, 1277-1289	50.5	607
665	Loss of HIF-2alpha and inhibition of VEGF impair fetal lung maturation, whereas treatment with VEGF prevents fatal respiratory distress in premature mice. <i>Nature Medicine</i> , 2002 , 8, 702-10	50.5	600
664	Role of tissue factor in embryonic blood vessel development. <i>Nature</i> , 1996 , 383, 73-5	50.4	588
663	Absence of host plasminogen activator inhibitor 1 prevents cancer invasion and vascularization. <i>Nature Medicine</i> , 1998 , 4, 923-8	50.5	577
662	Molecular mechanisms of lymphangiogenesis in health and disease. <i>Cancer Cell</i> , 2002 , 1, 219-27	24.3	576
661	Urokinase-generated plasmin activates matrix metalloproteinases during aneurysm formation. <i>Nature Genetics</i> , 1997 , 17, 439-44	36.3	568
660	Impaired myocardial angiogenesis and ischemic cardiomyopathy in mice lacking the vascular endothelial growth factor isoforms VEGF164 and VEGF188. <i>Nature Medicine</i> , 1999 , 5, 495-502	50.5	559

659	HRG inhibits tumor growth and metastasis by inducing macrophage polarization and vessel normalization through downregulation of PLGF. <i>Cancer Cell</i> , 2011 , 19, 31-44	24.3	528
658	In vivo measurement of gene expression, angiogenesis and physiological function in tumors using multiphoton laser scanning microscopy. <i>Nature Medicine</i> , 2001 , 7, 864-8	50.5	528
657	COVID-19: the vasculature unleashed. <i>Nature Reviews Immunology</i> , 2020 , 20, 389-391	36.5	516
656	VEGF delivery with retrogradely transported lentivector prolongs survival in a mouse ALS model. <i>Nature</i> , 2004 , 429, 413-7	50.4	515
655	Duodenal calcium absorption in vitamin D receptor-knockout mice: functional and molecular aspects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 13324-9	41.5	473
654	FLT1 and its ligands VEGFB and PLGF: drug targets for anti-angiogenic therapy?. <i>Nature Reviews Cancer</i> , 2008 , 8, 942-56	31.3	445
653	Treatment of motoneuron degeneration by intracerebroventricular delivery of VEGF in a rat model of ALS. <i>Nature Neuroscience</i> , 2005 , 8, 85-92	25.5	429
652	Recent molecular discoveries in angiogenesis and antiangiogenic therapies in cancer. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3190-200	15.9	427
651	Renal cyst formation in Fh1-deficient mice is independent of the Hif/Phd pathway: roles for fumarate in KEAP1 succination and Nrf2 signaling. <i>Cancer Cell</i> , 2011 , 20, 524-37	24.3	426
650	VEGF: once regarded as a specific angiogenic factor, now implicated in neuroprotection. <i>BioEssays</i> , 2004 , 26, 943-54	4.1	423
649	Variants of the elongator protein 3 (ELP3) gene are associated with motor neuron degeneration. <i>Human Molecular Genetics</i> , 2009 , 18, 472-81	5.6	421
648	The netrin receptor UNC5B mediates guidance events controlling morphogenesis of the vascular system. <i>Nature</i> , 2004 , 432, 179-86	50.4	421
647	Modification of kidney barrier function by the urokinase receptor. <i>Nature Medicine</i> , 2008 , 14, 55-63	50.5	410
646	Blood vessels and nerves: common signals, pathways and diseases. <i>Nature Reviews Genetics</i> , 2003 , 4, 710-20	30.1	409
645	PHD1 controls muscle mTORC1 in a hydroxylation-independent manner by stabilizing leucyl tRNA synthetase. <i>Nature Communications</i> , 2020 , 11, 174	17.4	394
644	Protective role of reactive astrocytes in brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 468-81	7.3	387
643	Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. <i>Nature Genetics</i> , 2008 , 40, 170-80	36.3	383
642	Deficiency or inhibition of Gas6 causes platelet dysfunction and protects mice against thrombosis. <i>Nature Medicine</i> , 2001 , 7, 215-21	50.5	362

641	Impaired angiogenesis and endochondral bone formation in mice lacking the vascular endothelial growth factor isoforms VEGF164 and VEGF188. <i>Mechanisms of Development</i> , 2002 , 111, 61-73	1.7	356
640	Tumour hypoxia causes DNA hypermethylation by reducing TET activity. <i>Nature</i> , 2016 , 537, 63-68	50.4	354
639	Fatty acid carbon is essential for dNTP synthesis in endothelial cells. <i>Nature</i> , 2015 , 520, 192-197	50.4	353
638	A vascular niche and a VEGF-Nrp1 loop regulate the initiation and stemness of skin tumours. <i>Nature</i> , 2011 , 478, 399-403	50.4	343
637	Endothelial cell metabolism in normal and diseased vasculature. <i>Circulation Research</i> , 2015 , 116, 1231-44	15.7	337
636	Partial and transient reduction of glycolysis by PFKFB3 blockade reduces pathological angiogenesis. <i>Cell Metabolism</i> , 2014 , 19, 37-48	24.6	333
635	Silencing or fueling metastasis with VEGF inhibitors: antiangiogenesis revisited. <i>Cancer Cell</i> , 2009 , 15, 167-70	24.3	329
634	Arteriolar and venular patterning in retinas of mice selectively expressing VEGF isoforms. <i>Journal of Clinical Investigation</i> , 2002 , 109, 327-336	15.9	327
633	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. <i>Cancer Cell</i> , 2016 , 30, 968-985	24.3	325
632	PR39, a peptide regulator of angiogenesis. <i>Nature Medicine</i> , 2000 , 6, 49-55	50.5	324
631	Progranulin functions as a neurotrophic factor to regulate neurite outgrowth and enhance neuronal survival. <i>Journal of Cell Biology</i> , 2008 , 181, 37-41	7.3	322
630	Role and therapeutic potential of VEGF in the nervous system. <i>Physiological Reviews</i> , 2009 , 89, 607-48	47.9	319
629	FOXO1 couples metabolic activity and growth state in the vascular endothelium. <i>Nature</i> , 2016 , 529, 216-20	30.4	318
628	VE-Cadherin-Cre-recombinase transgenic mouse: a tool for lineage analysis and gene deletion in endothelial cells. <i>Developmental Dynamics</i> , 2006 , 235, 759-67	2.9	317
627	Conditional switching of VEGF provides new insights into adult neovascularization and pro-angiogenic therapy. <i>EMBO Journal</i> , 2002 , 21, 1939-47	13	306
626	Plasminogen activator inhibitor-1 gene-deficient mice. II. Effects on hemostasis, thrombosis, and thrombolysis. <i>Journal of Clinical Investigation</i> , 1993 , 92, 2756-60	15.9	302
625	Mice lacking the gene encoding tissue-type plasminogen activator show a selective interference with late-phase long-term potentiation in both Schaffer collateral and mossy fiber pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 8699-704	11.5	301
624	Metabolism of stromal and immune cells in health and disease. <i>Nature</i> , 2014 , 511, 167-76	50.4	298

623	Regulation of angiogenesis by oxygen and metabolism. <i>Developmental Cell</i> , 2009 , 16, 167-79	10.2	293
622	Regulation of angiogenesis by tissue factor cytoplasmic domain signaling. <i>Nature Medicine</i> , 2004 , 10, 502-9	50.5	293
621	Tumor hypoxia does not drive differentiation of tumor-associated macrophages but rather fine-tunes the M2-like macrophage population. <i>Cancer Research</i> , 2014 , 74, 24-30	10.1	290
620	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018 , 21, 425-53	53.8	285
619	CXCL12 and vascular endothelial growth factor synergistically induce neoangiogenesis in human ovarian cancers. <i>Cancer Research</i> , 2005 , 65, 465-72	10.1	285
618	Tumor vessel normalization by chloroquine independent of autophagy. <i>Cancer Cell</i> , 2014 , 26, 190-206	24.3	284
617	Transcription factor hepatocyte nuclear factor 6 regulates pancreatic endocrine cell differentiation and controls expression of the proendocrine gene ngn3. <i>Molecular and Cellular Biology</i> , 2000 , 20, 4445-54	4.8	284
616	The plasminogen activator inhibitor PAI-1 controls in vivo tumor vascularization by interaction with proteases, not vitronectin. Implications for antiangiogenic strategies. <i>Journal of Cell Biology</i> , 2001 , 152, 777-84	7.3	283
615	Single-Cell Transcriptome Atlas of Murine Endothelial Cells. <i>Cell</i> , 2020 , 180, 764-779.e20	56.2	281
614	Placental growth factor and its receptor, vascular endothelial growth factor receptor-1: novel targets for stimulation of ischemic tissue revascularization and inhibition of angiogenic and inflammatory disorders. <i>Journal of Thrombosis and Haemostasis</i> , 2003 , 1, 1356-70	15.4	279
613	VEGF and PlGF promote adult vasculogenesis by enhancing EPC recruitment and vessel formation at the site of tumor neovascularization. <i>FASEB Journal</i> , 2006 , 20, 1495-7	0.9	278
612	Effects of disruption of the plasminogen gene on thrombosis, growth, and health in mice. <i>Circulation</i> , 1995 , 92, 2585-93	16.7	278
611	Neurovascular signalling defects in neurodegeneration. <i>Nature Reviews Neuroscience</i> , 2008 , 9, 169-81	13.5	277
610	Mechanisms of vessel branching: filopodia on endothelial tip cells lead the way. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 639-49	9.4	275
609	Markers of response for the antiangiogenic agent bevacizumab. <i>Journal of Clinical Oncology</i> , 2013 , 31, 1219-30	2.2	272
608	Plasminogen activator inhibitor-1 gene-deficient mice. I. Generation by homologous recombination and characterization. <i>Journal of Clinical Investigation</i> , 1993 , 92, 2746-55	15.9	270
607	Inhibition of oxygen sensors as a therapeutic strategy for ischaemic and inflammatory disease. <i>Nature Reviews Drug Discovery</i> , 2009 , 8, 139-52	64.1	269
606	Placental growth factor, a member of the VEGF family, contributes to the development of choroidal neovascularization. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 3186-93		266

605	VEGFR-1-selective VEGF homologue PlGF is arteriogenic: evidence for a monocyte-mediated mechanism. <i>Circulation Research</i> , 2003 , 92, 378-85	15.7	265
604	VEGF: a modifier of the del22q11 (DiGeorge) syndrome?. <i>Nature Medicine</i> , 2003 , 9, 173-82	50.5	256
603	Role of endothelial cell metabolism in vessel sprouting. <i>Cell Metabolism</i> , 2013 , 18, 634-47	24.6	254
602	Production of interleukin-6 by folliculo-stellate cells of the anterior pituitary gland in a histiotypic cell aggregate culture system. <i>Neuroendocrinology</i> , 1989 , 49, 102-6	5.6	246
601	Loss of matrix metalloproteinase-9 or matrix metalloproteinase-12 protects apolipoprotein E-deficient mice against atherosclerotic media destruction but differentially affects plaque growth. <i>Circulation</i> , 2004 , 109, 1408-14	16.7	244
600	Vitamin D receptor in chondrocytes promotes osteoclastogenesis and regulates FGF23 production in osteoblasts. <i>Journal of Clinical Investigation</i> , 2006 , 116, 3150-9	15.9	239
599	The pro- or antiangiogenic effect of plasminogen activator inhibitor 1 is dose dependent. <i>FASEB Journal</i> , 2002 , 16, 147-54	0.9	238
598	Macrophage Metabolism Controls Tumor Blood Vessel Morphogenesis and Metastasis. <i>Cell Metabolism</i> , 2016 , 24, 701-715	24.6	234
597	Dendritic cell subsets differentially regulate angiogenesis in human ovarian cancer. <i>Cancer Research</i> , 2004 , 64, 5535-8	10.1	230
596	The FGF system has a key role in regulating vascular integrity. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3355-66	15.9	230
595	A mouse model for Zellweger syndrome. <i>Nature Genetics</i> , 1997 , 17, 49-57	36.3	226
594	Tancytic VEGF-A boosts blood-hypothalamus barrier plasticity and access of metabolic signals to the arcuate nucleus in response to fasting. <i>Cell Metabolism</i> , 2013 , 17, 607-17	24.6	224
593	Increased cardiac expression of tissue inhibitor of metalloproteinase-1 and tissue inhibitor of metalloproteinase-2 is related to cardiac fibrosis and dysfunction in the chronic pressure-overloaded human heart. <i>Circulation</i> , 2005 , 112, 1136-44	16.7	223
592	Vascular endothelial growth factor is an important determinant of sepsis morbidity and mortality. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1447-58	16.6	219
591	Further pharmacological and genetic evidence for the efficacy of PlGF inhibition in cancer and eye disease. <i>Cell</i> , 2010 , 141, 178-90	56.2	218
590	Heterozygous deficiency of hypoxia-inducible factor-2alpha protects mice against pulmonary hypertension and right ventricular dysfunction during prolonged hypoxia. <i>Journal of Clinical Investigation</i> , 2003 , 111, 1519-27	15.9	218
589	Oxygen sensors at the crossroad of metabolism. <i>Cell Metabolism</i> , 2009 , 9, 11-22	24.6	216
588	Antiangiogenic therapy, hypoxia, and metastasis: risky liaisons, or not?. <i>Nature Reviews Clinical Oncology</i> , 2011 , 8, 393-404	19.4	215

587	Antiangiogenic treatment with sunitinib ameliorates inflammatory infiltrate, fibrosis, and portal pressure in cirrhotic rats. <i>Hepatology</i> , 2007 , 46, 1919-26	11.2	213
586	Inhibition of hypoxia inducible factor hydroxylases protects against renal ischemia-reperfusion injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2008 , 19, 39-46	12.7	213
585	Abrupt rate accelerations or premature beats cause life-threatening arrhythmias in mice with long-QT3 syndrome. <i>Nature Medicine</i> , 2001 , 7, 1021-7	50.5	210
584	Mice lacking factor VII develop normally but suffer fatal perinatal bleeding. <i>Nature</i> , 1997 , 390, 290-4	50.4	208
583	Function of the plasminogen/plasmin and matrix metalloproteinase systems after vascular injury in mice with targeted inactivation of fibrinolytic system genes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998 , 18, 1035-45	9.4	207
582	Soluble VEGF isoforms are essential for establishing epiphyseal vascularization and regulating chondrocyte development and survival. <i>Journal of Clinical Investigation</i> , 2004 , 113, 188-199	15.9	207
581	Vascular and neuronal effects of VEGF in the nervous system: implications for neurological disorders. <i>Seminars in Cell and Developmental Biology</i> , 2002 , 13, 39-53	7.5	202
580	Molecular basis of angiogenesis. Role of VEGF and VE-cadherin. <i>Annals of the New York Academy of Sciences</i> , 2000 , 902, 249-62; discussion 262-4	6.5	201
579	Endothelial Cell Metabolism. <i>Physiological Reviews</i> , 2018 , 98, 3-58	47.9	201
578	Mechanisms of resistance to anti-angiogenic therapy and development of third-generation anti-angiogenic drug candidates. <i>Genes and Cancer</i> , 2010 , 1, 12-25	2.9	200
577	TRPA1 underlies a sensing mechanism for O ₂ . <i>Nature Chemical Biology</i> , 2011 , 7, 701-11	11.7	197
576	The neurovascular link in health and disease: molecular mechanisms and therapeutic implications. <i>Neuron</i> , 2011 , 71, 406-24	13.9	194
575	Plasminogen Deficiency Differentially Affects Recruitment of Inflammatory Cell Populations in Mice. <i>Blood</i> , 1998 , 91, 2005-2009	2.2	193
574	Endothelial cell O-glycan deficiency causes blood/lymphatic misconnections and consequent fatty liver disease in mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3725-37	15.9	193
573	A genetic <i>Xenopus laevis</i> tadpole model to study lymphangiogenesis. <i>Nature Medicine</i> , 2005 , 11, 998-1004	36.5	191
572	VEGF receptor 2 endocytic trafficking regulates arterial morphogenesis. <i>Developmental Cell</i> , 2010 , 18, 713-24	10.2	188
571	Vascular endothelial growth factor (VEGF) modulation by targeting hypoxia-inducible factor-1 α --> hypoxia response element--> VEGF cascade differentially regulates vascular response and growth rate in tumors. <i>Cancer Research</i> , 2000 , 60, 6248-52	10.1	185
570	Histamine Receptor H1-Mediated Sensitization of TRPV1 Mediates Visceral Hypersensitivity and Symptoms in Patients With Irritable Bowel Syndrome. <i>Gastroenterology</i> , 2016 , 150, 875-87.e9	13.3	184

569	Role of Gas6 receptors in platelet signaling during thrombus stabilization and implications for antithrombotic therapy. <i>Journal of Clinical Investigation</i> , 2005 , 115, 237-46	15.9	183
568	FGF-dependent metabolic control of vascular development. <i>Nature</i> , 2017 , 545, 224-228	50.4	181
567	Fibrinogen drives dystrophic muscle fibrosis via a TGFbeta/alternative macrophage activation pathway. <i>Genes and Development</i> , 2008 , 22, 1747-52	12.6	179
566	Regulation of arterial thrombolysis by plasminogen activator inhibitor-1 in mice. <i>Circulation</i> , 1998 , 97, 1002-8	16.7	179
565	The European dimension for the mouse genome mutagenesis program. <i>Nature Genetics</i> , 2004 , 36, 925-7	36.3	176
564	Abnormal B lymphocyte development and autoimmunity in hypoxia-inducible factor 1alpha-deficient chimeric mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2170-4	11.5	175
563	Targeting placental growth factor/neuropilin 1 pathway inhibits growth and spread of medulloblastoma. <i>Cell</i> , 2013 , 152, 1065-76	56.2	174
562	Placental growth factor (PLGF) and its receptor Flt-1 (VEGFR-1): novel therapeutic targets for angiogenic disorders. <i>Annals of the New York Academy of Sciences</i> , 2002 , 979, 80-93	6.5	174
561	Hypoxia-inducible factors 1alpha and 2alpha regulate trophoblast differentiation. <i>Molecular and Cellular Biology</i> , 2005 , 25, 10479-91	4.8	174
560	Arteriolar and venular patterning in retinas of mice selectively expressing VEGF isoforms. <i>Journal of Clinical Investigation</i> , 2002 , 109, 327-36	15.9	172
559	Plasminogen and plasminogen activators protect against renal injury in crescentic glomerulonephritis. <i>Journal of Experimental Medicine</i> , 1997 , 185, 963-8	16.6	171
558	Inhibitory role of plasminogen activator inhibitor-1 in arterial wound healing and neointima formation: a gene targeting and gene transfer study in mice. <i>Circulation</i> , 1997 , 96, 3180-91	16.7	171
557	The role of fatty acid oxidation in lymphangiogenesis. <i>Nature</i> , 2017 , 542, 49-54	50.4	167
556	Plasminogen activator inhibitor-1 is a major determinant of arterial thrombolysis resistance. <i>Circulation</i> , 1999 , 99, 3050-5	16.7	166
555	Abnormal sympathoadrenal development and systemic hypotension in PHD3-/- mice. <i>Molecular and Cellular Biology</i> , 2008 , 28, 3386-400	4.8	163
554	VEGF: a critical player in neurodegeneration. <i>Journal of Clinical Investigation</i> , 2004 , 113, 14-18	15.9	163
553	Astrocytes regulate GluR2 expression in motor neurons and their vulnerability to excitotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14825-30	11.5	161
552	Development and disease in proteinase-deficient mice: role of the plasminogen, matrix metalloproteinase and coagulation system. <i>Thrombosis Research</i> , 1998 , 91, 255-85	8.2	160

551	Activation of the UNC5B receptor by Netrin-1 inhibits sprouting angiogenesis. <i>Genes and Development</i> , 2007 , 21, 2433-47	12.6	160
550	Manipulating angiogenesis in medicine. <i>Journal of Internal Medicine</i> , 2004 , 255, 538-61	10.8	160
549	Vascular endothelial growth factor: a neurovascular target in neurological diseases. <i>Nature Reviews Neurology</i> , 2016 , 12, 439-54	15	160
548	Branching morphogenesis and antiangiogenesis candidates: tip cells lead the way. <i>Nature Reviews Clinical Oncology</i> , 2009 , 6, 315-26	19.4	159
547	Genetic evidence for a tumor suppressor role of HIF-2alpha. <i>Cancer Cell</i> , 2005 , 8, 131-41	24.3	157
546	The Link Between Angiogenesis and Endothelial Metabolism. <i>Annual Review of Physiology</i> , 2017 , 79, 43-66.1	66.1	156
545	Urokinase receptor is necessary for adequate host defense against pneumococcal pneumonia. <i>Journal of Immunology</i> , 2002 , 168, 3507-11	5.3	155
544	VEGF pathway genetic variants as biomarkers of treatment outcome with bevacizumab: an analysis of data from the AVITA and AVOREN randomised trials. <i>Lancet Oncology</i> , 2012 , 13, 724-33	21.7	154
543	Overlap syndrome of cardiac sodium channel disease in mice carrying the equivalent mutation of human SCN5A-1795insD. <i>Circulation</i> , 2006 , 114, 2584-94	16.7	153
542	Absence of SPARC results in increased cardiac rupture and dysfunction after acute myocardial infarction. <i>Journal of Experimental Medicine</i> , 2009 , 206, 113-23	16.6	152
541	Guidance of vascular and neural network formation. <i>Current Opinion in Neurobiology</i> , 2005 , 15, 108-15	7.6	152
540	Inactivation of the peroxisomal multifunctional protein-2 in mice impedes the degradation of not only 2-methyl-branched fatty acids and bile acid intermediates but also of very long chain fatty acids. <i>Journal of Biological Chemistry</i> , 2000 , 275, 16329-36	5.4	152
539	Increased skeletal VEGF enhances beta-catenin activity and results in excessively ossified bones. <i>EMBO Journal</i> , 2010 , 29, 424-41	13	150
538	Axl, a prognostic and therapeutic target in acute myeloid leukemia mediates paracrine crosstalk of leukemia cells with bone marrow stroma. <i>Blood</i> , 2013 , 122, 2443-52	2.2	149
537	A Fatty Acid Oxidation-Dependent Metabolic Shift Regulates Adult Neural Stem Cell Activity. <i>Cell Reports</i> , 2017 , 20, 2144-2155	10.6	149
536	MicroRNA profiling identifies microRNA-155 as an adverse mediator of cardiac injury and dysfunction during acute viral myocarditis. <i>Circulation Research</i> , 2012 , 111, 415-25	15.7	149
535	Vitamin D3 Induces Tolerance in Human Dendritic Cells by Activation of Intracellular Metabolic Pathways. <i>Cell Reports</i> , 2015 , 10, 711-725	10.6	147
534	Vessel abnormalization: another hallmark of cancer? Molecular mechanisms and therapeutic implications. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 73-9	4.9	146

533	Blood Coagulation Factor X Deficiency Causes Partial Embryonic Lethality and Fatal Neonatal Bleeding in Mice. <i>Thrombosis and Haemostasis</i> , 2000 , 83, 185-190	7	146
532	PLGF: a multitasking cytokine with disease-restricted activity. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012 , 2,	5.4	145
531	Fasting Activates Fatty Acid Oxidation to Enhance Intestinal Stem Cell Function during Homeostasis and Aging. <i>Cell Stem Cell</i> , 2018 , 22, 769-778.e4	18	144
530	VEGF-C is a trophic factor for neural progenitors in the vertebrate embryonic brain. <i>Nature Neuroscience</i> , 2006 , 9, 340-8	25.5	144
529	Role of glutamine and interlinked asparagine metabolism in vessel formation. <i>EMBO Journal</i> , 2017 , 36, 2334-2352	13	143
528	Vascular endothelial growth factor-B induces myocardium-specific angiogenesis and arteriogenesis via vascular endothelial growth factor receptor-1- and neuropilin receptor-1-dependent mechanisms. <i>Circulation</i> , 2009 , 119, 845-56	16.7	143
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