Kari Alitalo

List of Publications by Citations

726 papers	93,967 citations	159 h-index	282 g-index
748 ext. papers	101,732 ext. citations	10.7 avg, IF	7.87 L-index

#	Paper	IF	Citations
726	VEGF guides angiogenic sprouting utilizing endothelial tip cell filopodia. *Journal of Cell Biology*, **2003**, 161, 1163-77	7.3	2122
725	Molecular regulation of angiogenesis and lymphangiogenesis. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 464-78	48.7	1445
724	Induction of tumor lymphangiogenesis by VEGF-C promotes breast cancer metastasis. *Nature Medicine*, **2001**, 7, 192-8	50.5	1383
723	Amplified DNA with limited homology to myc cellular oncogene is shared by human neuroblastoma cell lines and a neuroblastoma tumour. *Nature*, **1983**, 305, 245-8	50.4	1170
722	Expression of the fms-like tyrosine kinase 4 gene becomes restricted to lymphatic endothelium during development. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 3566-70	11.5	1141
721	A dural lymphatic vascular system that drains brain interstitial fluid and macromolecules. *Journal of Experimental Medicine*, **2015**, 212, 991-9	16.6	1079
720	Hyperplasia of lymphatic vessels in VEGF-C transgenic mice. *Science*, **1997**, 276, 1423-5	33.3	1056
719	Control of vascular morphogenesis and homeostasis through the angiopoietin-Tie system. *Nature Reviews Molecular Cell Biology*, **2009**, 10, 165-77	48.7	1051
718	Vascular endothelial growth factor C is required for sprouting of the first lymphatic vessels from embryonic veins. *Nature Immunology*, **2004**, 5, 74-80	19.1	1038
717	Lymphangiogenesis: Molecular mechanisms and future promise. *Cell*, **2010**, 140, 460-76	56.2	988
716	Vascular endothelial growth factor D (VEGF-D) is a ligand for the tyrosine kinases VEGF receptor 2 (Flk1) and VEGF receptor 3 (Flt4). *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 548-53	11.5	970
715	Lymphangiogenesis in development and human disease. *Nature*, **2005**, 438, 946-53	50.4	952
714	A novel vascular endothelial growth factor, VEGF-C, is a ligand for the Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases.. *EMBO Journal*, **1996**, 15, 290-298	13	951
713	Angiosarcomas express mixed endothelial phenotypes of blood and lymphatic capillaries: podoplanin as a specific marker for lymphatic endothelium. *American Journal of Pathology*, **1999**, 154, 385-94	5.8	886
712	Clinical applications of angiogenic growth factors and their inhibitors. *Nature Medicine*, **1999**, 5, 1359-64	50.5	878
711	Copy number variation and selection during reprogramming to pluripotency. *Nature*, **2011**, 471, 58-62	50.4	753
710	Vascular endothelial growth factor-C-mediated lymphangiogenesis promotes tumour metastasis. *EMBO Journal*, **2001**, 20, 672-82	13	696

709	Macrophages regulate salt-dependent volume and blood pressure by a vascular endothelial growth factor-C-dependent buffering mechanism. *Nature Medicine*, **2009**, 15, 545-52	50.5	667
708	Blocking VEGFR-3 suppresses angiogenic sprouting and vascular network formation. *Nature*, **2008**, 454, 656-60	50.4	649
707	Lymphangiogenesis and cancer metastasis. *Nature Reviews Cancer*, **2002**, 2, 573-83	31.3	647
706	Cardiovascular failure in mouse embryos deficient in VEGF receptor-3. *Science*, **1998**, 282, 946-9	33.3	646
705	The lymphatic vasculature in disease. *Nature Medicine*, **2011**, 17, 1371-80	50.5	643
704	Homogeneously staining chromosomal regions contain amplified copies of an abundantly expressed cellular oncogene (c-myc) in malignant neuroendocrine cells from a human colon carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **1983**, 80, 1707-11	11.5	633
703	Tumor-associated macrophages express lymphatic endothelial growth factors and are related to peritumoral lymphangiogenesis. *American Journal of Pathology*, **2002**, 161, 947-56	5.8	628
702	Proteolytic processing regulates receptor specificity and activity of VEGF-C. *EMBO Journal*, **1997**, 16, 3898-911	13	613
701	Inhibition of lymphangiogenesis with resulting lymphedema in transgenic mice expressing soluble VEGF receptor-3. *Nature Medicine*, **2001**, 7, 199-205	50.5	610
700	Isolated lymphatic endothelial cells transduce growth, survival and migratory signals via the VEGF-C/D receptor VEGFR-3. *EMBO Journal*, **2001**, 20, 4762-73	13	604
699	Vascular endothelial growth factor B, a novel growth factor for endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 2576-81	11.5	597
698	Distribution of human herpesvirus-8 latently infected cells in Kaposi's sarcoma, multicentric Castleman's disease, and primary effusion lymphoma. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 4546-51	11.5	584
697	Molecular mechanisms of lymphangiogenesis in health and disease. *Cancer Cell*, **2002**, 1, 219-27	24.3	576
696	The biology of vascular endothelial growth factors. *Cardiovascular Research*, **2005**, 65, 550-63	9.9	557
695	VEGFs and receptors involved in angiogenesis versus lymphangiogenesis. *Current Opinion in Cell Biology*, **2009**, 21, 154-65	9	551
694	Signalling via vascular endothelial growth factor receptor-3 is sufficient for lymphangiogenesis in transgenic mice. *EMBO Journal*, **2001**, 20, 1223-31	13	543
693	Missense mutations interfere with VEGFR-3 signalling in primary lymphoedema. *Nature Genetics*, **2000**, 25, 153-9	36.3	521
692	Vascular endothelial growth factor ligands and receptors that regulate human cytotrophoblast survival are dysregulated in severe preeclampsia and hemolysis, elevated liver enzymes, and low platelets syndrome. *American Journal of Pathology*, **2002**, 160, 1405-23	5.8	495

691	PDGF-C is a new protease-activated ligand for the PDGF alpha-receptor. *Nature Cell Biology*, **2000**, 2, 302-9	23.4	493
690	Lymphatic endothelial reprogramming of vascular endothelial cells by the Prox-1 homeobox transcription factor. *EMBO Journal*, **2002**, 21, 4593-9	13	481
689	A model for gene therapy of human hereditary lymphedema. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 12677-82	11.5	481
688	Regulation of angiogenesis via vascular endothelial growth factor receptors. *Cancer Research*, **2000**, 60, 203-12	10.1	481
687	Binding of ras to phosphoinositide 3-kinase p110alpha is required for ras-driven tumorigenesis in mice. *Cell*, **2007**, 129, 957-68	56.2	480
686	Vascular endothelial growth factor is induced in response to transforming growth factor-beta in fibroblastic and epithelial cells.. *Journal of Biological Chemistry*, **1994**, 269, 6271-6274	5.4	474
685	Endothelial receptor tyrosine kinases involved in angiogenesis. *Journal of Cell Biology*, **1995**, 129, 895-8	7.3	467
684	Vascular endothelial growth factor C induces angiogenesis in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 14389-94	11.5	465
683	Vascular endothelial growth factor is induced in response to transforming growth factor-beta in fibroblastic and epithelial cells. *Journal of Biological Chemistry*, **1994**, 269, 6271-4	5.4	462
682	Defective valves and abnormal mural cell recruitment underlie lymphatic vascular failure in lymphedema distichiasis. *Nature Medicine*, **2004**, 10, 974-81	50.5	458
681	PDGF-D is a specific, protease-activated ligand for the PDGF beta-receptor. *Nature Cell Biology*, **2001**, 3, 512-6	23.4	453
680	VEGFR-3 and its ligand VEGF-C are associated with angiogenesis in breast cancer. *American Journal of Pathology*, **1999**, 154, 1381-90	5.8	447
679	VEGF-C receptor binding and pattern of expression with VEGFR-3 suggests a role in lymphatic vascular development. *Development (Cambridge)*, **1996**, 122, 3829-3837	6.6	440
678	Vascular endothelial growth factor B (VEGF-B) binds to VEGF receptor-1 and regulates plasminogen activator activity in endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 11709-14	11.5	438
677	Polarized vascular endothelial growth factor secretion by human retinal pigment epithelium and localization of vascular endothelial growth factor receptors on the inner choriocapillaris. Evidence for a trophic paracrine relation. *American Journal of Pathology*, **1999**, 155, 421-8	5.8	437
676	Vascular endothelial growth factor C promotes tumor lymphangiogenesis and intralymphatic tumor growth. *Cancer Research*, **2001**, 61, 1786-90	10.1	435
675	Pathogenesis of persistent lymphatic vessel hyperplasia in chronic airway inflammation. *Journal of Clinical Investigation*, **2005**, 115, 247-257	15.9	434
674	A cellular oncogene (c-Ki-ras) is amplified, overexpressed, and located within karyotypic abnormalities in mouse adrenocortical tumour cells. *Nature*, **1983**, 303, 497-501	50.4	432

673	Abnormal lymphatic vessel development in neuropilin 2 mutant mice. *Development (Cambridge)*, **2002**, 129, 4797-4806	6.6	432
672	Suppression of tumor lymphangiogenesis and lymph node metastasis by blocking vascular endothelial growth factor receptor 3 signaling. *Journal of the National Cancer Institute*, **2002**, 94, 819-25	9.7	425
671	Vascularization of the mouse embryo: a study of flk-1, tek, tie, and vascular endothelial growth factor expression during development. *Developmental Dynamics*, **1995**, 203, 80-92	2.9	422
670	VEGF-C-induced lymphangiogenesis in sentinel lymph nodes promotes tumor metastasis to distant sites. *Blood*, **2007**, 109, 1010-7	2.2	410
669	VEGF and VEGF-C: specific induction of angiogenesis and lymphangiogenesis in the differentiated avian chorioallantoic membrane. *Developmental Biology*, **1997**, 188, 96-109	3.1	398
668	VEGFs, receptors and angiogenesis. *Seminars in Cancer Biology*, **1999**, 9, 211-20	12.7	389
667	FGFR-4, a novel acidic fibroblast growth factor receptor with a distinct expression pattern.. *EMBO Journal*, **1991**, 10, 1347-1354	13	388
666	Comparison of VEGF, VEGF-B, VEGF-C and Ang-1 mRNA regulation by serum, growth factors, oncoproteins and hypoxia. *Oncogene*, **1997**, 14, 2475-83	9.2	382
665	Kaposi sarcoma herpesvirus-induced cellular reprogramming contributes to the lymphatic endothelial gene expression in Kaposi sarcoma. *Nature Genetics*, **2004**, 36, 687-93	36.3	379
664	Interaction of endostatin with integrins implicated in angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 1024-1029	11.5	377
663	The receptor tyrosine kinase TIE is required for integrity and survival of vascular endothelial cells.. *EMBO Journal*, **1995**, 14, 5884-5891	13	358
662	PDZ interaction site in ephrinB2 is required for the remodeling of lymphatic vasculature. *Genes and Development*, **2005**, 19, 397-410	12.6	357
661	Adult bone marrow-derived cells recruited during angiogenesis comprise precursors for periendothelial vascular mural cells. *Blood*, **2004**, 104, 2084-6	2.2	350
660	Angiopoietins assemble distinct Tie2 signalling complexes in endothelial cell-cell and cell-matrix contacts. *Nature Cell Biology*, **2008**, 10, 527-37	23.4	348
659	A novel vascular endothelial growth factor, VEGF-C, is a ligand for the Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases. *EMBO Journal*, **1996**, 15, 290-98	13	348
658	Gene transfer as a tool to induce therapeutic vascular growth. *Nature Medicine*, **2003**, 9, 694-701	50.5	346
657	Bone marrow-derived circulating endothelial precursors do not contribute to vascular endothelium and are not needed for tumor growth. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 6620-5	11.5	340
656	Congenital hereditary lymphedema caused by a mutation that inactivates VEGFR3 tyrosine kinase. *American Journal of Human Genetics*, **2000**, 67, 295-301	11	338

655	VEGF-D is the strongest angiogenic and lymphangiogenic effector among VEGFs delivered into skeletal muscle via adenoviruses. *Circulation Research*, **2003**, 92, 1098-106	15.7	335
654	VEGF and angiopoietin signaling in tumor angiogenesis and metastasis. *Trends in Molecular Medicine*, **2011**, 17, 347-62	11.5	334
653	Vascular endothelial cell growth factor receptor 3-mediated activation of lymphatic endothelium is crucial for tumor cell entry and spread via lymphatic vessels. *Cancer Research*, **2005**, 65, 4739-46	10.1	332
652	Tie receptors: new modulators of angiogenic and lymphangiogenic responses. *Nature Reviews Molecular Cell Biology*, **2001**, 2, 257-67	48.7	332
651	Concurrent induction of lymphangiogenesis, angiogenesis, and macrophage recruitment by vascular endothelial growth factor-C in melanoma. *American Journal of Pathology*, **2001**, 159, 893-903	5.8	329
650	Vascular growth factors and lymphangiogenesis. *Physiological Reviews*, **2002**, 82, 673-700	47.9	322
649	Signaling and functions of angiopoietin-1 in vascular protection. *Circulation Research*, **2006**, 98, 1014-23	15.7	321
648	Absence of functional lymphatics within a murine sarcoma: a molecular and functional evaluation. *Cancer Research*, **2000**, 60, 4324-7	10.1	317
647	Lymphatic vasculature: development, molecular regulation and role in tumor metastasis and inflammation. *Trends in Immunology*, **2004**, 25, 387-95	14.4	316
646	VEGFR-3 and CD133 identify a population of CD34+ lymphatic/vascular endothelial precursor cells. *Blood*, **2003**, 101, 168-72	2.2	315
645	Vascular endothelial growth factor receptor-3 in lymphangiogenesis in wound healing. *American Journal of Pathology*, **2000**, 156, 1499-504	5.8	305
644	A novel vascular endothelial growth factor, VEGF-C, is a ligand for the Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases.. *EMBO Journal*, **1996**, 15, 1751-1751	13	300
643	Proinflammatory cytokines regulate expression of the lymphatic endothelial mitogen vascular endothelial growth factor-C. *Journal of Biological Chemistry*, **1998**, 273, 8413-8	5.4	296
642	Critical role of CD11b+ macrophages and VEGF in inflammatory lymphangiogenesis, antigen clearance, and inflammation resolution. *Blood*, **2009**, 113, 5650-9	2.2	295
641	A novel endothelial cell surface receptor tyrosine kinase with extracellular epidermal growth factor homology domains. *Molecular and Cellular Biology*, **1992**, 12, 1698-707	4.8	290
640	Consensus guidelines for the use and interpretation of angiogenesis assays. *Angiogenesis*, **2018**, 21, 425-532	6.2	285
639	Understanding the functions and relationships of the glymphatic system and meningeal lymphatics. *Journal of Clinical Investigation*, **2017**, 127, 3210-3219	15.9	284
638	Therapeutic differentiation and maturation of lymphatic vessels after lymph node dissection and transplantation. *Nature Medicine*, **2007**, 13, 1458-66	50.5	274

637	VEGF-C and VEGF-D expression in neuroendocrine cells and their receptor, VEGFR-3, in fenestrated blood vessels in human tissues. *FASEB Journal*, **2000**, 14, 2087-96	0.9	272
636	Fibronectin is produced by human macrophages. *Journal of Experimental Medicine*, **1980**, 151, 602-13	16.6	272
635	Oncogene amplification in tumor cells. *Advances in Cancer Research*, **1986**, 47, 235-81	5.9	270
634	Vascular endothelial growth factors VEGF-B and VEGF-C are expressed in human tumors. *American Journal of Pathology*, **1998**, 153, 103-8	5.8	268
633	Pathogenesis of persistent lymphatic vessel hyperplasia in chronic airway inflammation. *Journal of Clinical Investigation*, **2005**, 115, 247-57	15.9	268
632	Molecular biology and pathology of lymphangiogenesis. *Annual Review of Pathology: Mechanisms of Disease*, **2008**, 3, 367-97	34	264
631	Blockade of vascular endothelial growth factor receptor-3 signaling inhibits fibroblast growth factor-2-induced lymphangiogenesis in mouse cornea. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 8868-73	11.5	261
630	Isolation of the pericellular matrix of human fibroblast cultures. *Journal of Cell Biology*, **1979**, 81, 83-91	7.3	258
629	Biosynthesis of vascular endothelial growth factor-D involves proteolytic processing which generates non-covalent homodimers. *Journal of Biological Chemistry*, **1999**, 274, 32127-36	5.4	255
628	FOXC2 controls formation and maturation of lymphatic collecting vessels through cooperation with NFATc1. *Journal of Cell Biology*, **2009**, 185, 439-57	7.3	254
627	Immune cells control skin lymphatic electrolyte homeostasis and blood pressure. *Journal of Clinical Investigation*, **2013**, 123, 2803-15	15.9	253
626	Induction of a basement membrane glycoprotein in embryonic kidney: possible role of laminin in morphogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **1980**, 77, 485-9	11.5	250
625	Neuropilin-2 mediates VEGF-C-induced lymphatic sprouting together with VEGFR3. *Journal of Cell Biology*, **2010**, 188, 115-30	7.3	246
624	The human p50csk tyrosine kinase phosphorylates p56lck at Tyr-505 and down regulates its catalytic activity.. *EMBO Journal*, **1992**, 11, 2919-2924	13	241
623	Novel function for blood platelets and podoplanin in developmental separation of blood and lymphatic circulation. *Blood*, **2010**, 115, 3997-4005	2.2	239
622	Vascular abnormalities and deregulation of VEGF in Lkb1-deficient mice. *Science*, **2001**, 293, 1323-6	33.3	239
621	Repression of cyclin D1: a novel function of MYC. *Molecular and Cellular Biology*, **1994**, 14, 4032-43	4.8	238
620	Macrophage skewing by Phd2 haplodeficiency prevents ischaemia by inducing arteriogenesis. *Nature*, **2011**, 479, 122-6	50.4	237

619	VEGFR-3 controls tip to stalk conversion at vessel fusion sites by reinforcing Notch signalling. *Nature Cell Biology*, **2011**, 13, 1202-13	23.4	237
618	Functional interaction of VEGF-C and VEGF-D with neuropilin receptors. *FASEB Journal*, **2006**, 20, 1462-72	2.9	237
617	Peripheral Blood Platelets Express VEGF-C and VEGF which Are Released during Platelet Activation. *Thrombosis and Haemostasis*, **1998**, 80, 171-175	7	230
616	Vascular endothelial growth factor-C expression in human prostatic carcinoma and its relationship to lymph node metastasis. *British Journal of Cancer*, **1999**, 80, 309-13	8.7	230
615	Comparative evaluation of FGF-2-, VEGF-A-, and VEGF-C-induced angiogenesis, lymphangiogenesis, vascular fenestrations, and permeability. *Circulation Research*, **2004**, 94, 664-70	15.7	229
614	Vascular endothelial growth factor (VEGF)-like protein from orf virus NZ2 binds to VEGFR2 and neuropilin-1. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 3071-6	11.5	228
613	Enhanced jun gene expression is an early genomic response to transforming growth factor beta stimulation. *Molecular and Cellular Biology*, **1989**, 9, 1255-62	4.8	227
612	Signaling via vascular endothelial growth factor receptors. *Experimental Cell Research*, **1999**, 253, 117-30	4.2	225
611	Identification of nuclear proteins encoded by viral and cellular myc oncogenes. *Nature*, **1983**, 306, 274-7	50.4	224
610	Biological action of angiopoietin-2 in a fibrin matrix model of angiogenesis is associated with activation of Tie2. *Cardiovascular Research*, **2001**, 49, 659-70	9.9	223
609	Therapeutic targeting of the angiopoietin-TIE pathway. *Nature Reviews Drug Discovery*, **2017**, 16, 635-661	64.1	217
608	Vascular endothelial growth factor (VEGF)-C signaling through FLT-4 (VEGFR-3) mediates leukemic cell proliferation, survival, and resistance to chemotherapy. *Blood*, **2002**, 99, 2179-84	2.2	217
607	Differential binding of vascular endothelial growth factor B splice and proteolytic isoforms to neuropilin-1. *Journal of Biological Chemistry*, **1999**, 274, 21217-22	5.4	215
606	The related FLT4, FLT1, and KDR receptor tyrosine kinases show distinct expression patterns in human fetal endothelial cells. *Journal of Experimental Medicine*, **1993**, 178, 2077-88	16.6	215
605	Lymphatic endothelium and Kaposi's sarcoma spindle cells detected by antibodies against the vascular endothelial growth factor receptor-3. *Cancer Research*, **1998**, 58, 1599-604	10.1	213
604	Mechanisms of angiogenesis and their use in the inhibition of tumor growth and metastasis. *Oncogene*, **2000**, 19, 6122-9	9.2	212
603	Lymphangiogenic factors, mechanisms, and applications. *Journal of Clinical Investigation*, **2014**, 124, 878-87	15.9	211
602	Inhibition of lymphogenous metastasis using adeno-associated virus-mediated gene transfer of a soluble VEGFR-3 decoy receptor. *Cancer Research*, **2005**, 65, 6901-9	10.1	210

601	Expression of vascular endothelial growth factor and placenta growth factor in human placenta. *Biology of Reproduction*, **1997**, 56, 489-94	3.9	208
600	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. *EMBO Journal*, **2013**, 32, 629-44	13	207
599	Angiopoietin-1 promotes lymphatic sprouting and hyperplasia. *Blood*, **2005**, 105, 4642-8	2.2	204
598	Two alternative mRNAs coding for the angiogenic factor, placenta growth factor (PlGF), are transcribed from a single gene of chromosome 14. *Oncogene*, **1993**, 8, 925-31	9.2	204
597	Therapeutic lymphangiogenesis with human recombinant VEGF-C. *FASEB Journal*, **2002**, 16, 1985-7	0.9	203
596	Angiopoietin-1 promotes LYVE-1-positive lymphatic vessel formation. *Blood*, **2005**, 105, 4649-56	2.2	202
595	Involvement of vascular endothelial growth factor receptor-3 in maintenance of integrity of endothelial cell lining during tumor angiogenesis. *Blood*, **2000**, 96, 546-553	2.2	199
594	Abnormal lymphatic vessel development in neuropilin 2 mutant mice. *Development (Cambridge)*, **2002**, 129, 4797-806	6.6	199
593	Lack of lymphatic vascular specificity of vascular endothelial growth factor receptor 3 in 185 vascular tumors **1999**, 86, 2406-2412		198
592	Vascular endothelial growth factor receptor 3 is involved in tumor angiogenesis and growth. *Cancer Research*, **2007**, 67, 593-9	10.1	195
591	Neural guidance molecules regulate vascular remodeling and vessel navigation. *Genes and Development*, **2005**, 19, 1013-21	12.6	193
590	Interaction of endostatin with integrins implicated in angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 1024-9	11.5	190
589	Adenoviral expression of vascular endothelial growth factor-C induces lymphangiogenesis in the skin. *Circulation Research*, **2001**, 88, 623-9	15.7	189
588	Lymphatic System in Cardiovascular Medicine. *Circulation Research*, **2016**, 118, 515-30	15.7	187
587	Ligand-induced vascular endothelial growth factor receptor-3 (VEGFR-3) heterodimerization with VEGFR-2 in primary lymphatic endothelial cells regulates tyrosine phosphorylation sites. *Journal of Biological Chemistry*, **2003**, 278, 40973-9	5.4	187
586	Vascular endothelial growth factors are differentially regulated by steroid hormones and antiestrogens in breast cancer cells. *Molecular and Cellular Endocrinology*, **1999**, 149, 29-40	4.4	185
585	An important role of lymphatic vessel activation in limiting acute inflammation. *Blood*, **2011**, 117, 4667-78	8.2	183
584	FLT4 receptor tyrosine kinase contains seven immunoglobulin-like loops and is expressed in multiple human tissues and cell lines. *Cancer Research*, **1992**, 52, 5738-43	10.1	183

583	Development and plasticity of meningeal lymphatic vessels. *Journal of Experimental Medicine*, **2017**, 214, 3645-3667	16.6	182
582	Stimulation of lymphangiogenesis via VEGFR-3 inhibits chronic skin inflammation. *Journal of Experimental Medicine*, **2010**, 207, 2255-69	16.6	181
581	A recombinant mutant vascular endothelial growth factor-C that has lost vascular endothelial growth factor receptor-2 binding, activation, and vascular permeability activities. *Journal of Biological Chemistry*, **1998**, 273, 6599-602	5.4	181
580	The lymphatic vasculature: recent progress and paradigms. *Annual Review of Cell and Developmental Biology*, **2005**, 21, 457-83	12.6	179
579	VEGF-C induced lymphangiogenesis is associated with lymph node metastasis in orthotopic MCF-7 tumors. *International Journal of Cancer*, **2002**, 98, 946-51	7.5	178
578	Vegfc/Flt4 signalling is suppressed by Dll4 in developing zebrafish intersegmental arteries. *Development (Cambridge)*, **2009**, 136, 4001-9	6.6	175
577	Large-scale identification of genes implicated in kidney glomerulus development and function. *EMBO Journal*, **2006**, 25, 1160-74	13	172
576	Expression of the vascular endothelial growth factor C receptor VEGFR-3 in lymphatic endothelium of the skin and in vascular tumors. *American Journal of Pathology*, **1998**, 153, 395-403	5.8	170
575	Vascular endothelial growth factor-C accelerates diabetic wound healing. *American Journal of Pathology*, **2006**, 169, 1080-7	5.8	168
574	Multiple angiopoietin recombinant proteins activate the Tie1 receptor tyrosine kinase and promote its interaction with Tie2. *Journal of Cell Biology*, **2005**, 169, 239-43	7.3	166
573	Nucleotide sequence to the v-myc oncogene of avian retrovirus MC29. *Proceedings of the National Academy of Sciences of the United States of America*, **1983**, 80, 100-4	11.5	165
572	A senescence-inflammatory switch from cancer-inhibitory to cancer-promoting mechanism. *Cancer Cell*, **2013**, 24, 242-56	24.3	164
571	Lymphatic endothelium: a new frontier of metastasis research. *Nature Cell Biology*, **2002**, 4, E2-5	23.4	163
570	Nonvenous origin of dermal lymphatic vasculature. *Circulation Research*, **2015**, 116, 1649-54	15.7	161
569	Use of cancer-specific genomic rearrangements to quantify disease burden in plasma from patients with solid tumors. *Genes Chromosomes and Cancer*, **2010**, 49, 1062-9	5	161
568	Plasmin activates the lymphangiogenic growth factors VEGF-C and VEGF-D. *Journal of Experimental Medicine*, **2003**, 198, 863-8	16.6	161
567	Identification of Tek/Tie2 binding partners. Binding to a multifunctional docking site mediates cell survival and migration. *Journal of Biological Chemistry*, **1999**, 274, 30896-905	5.4	159
566	Endothelial destabilization by angiopoietin-2 via integrin β1 activation. *Nature Communications*, **2015**, 6, 5962	17.4	158

565	Effects of angiopoietin-2-blocking antibody on endothelial cell-cell junctions and lung metastasis. *Journal of the National Cancer Institute*, **2012**, 104, 461-75	9.7	158
564	Signaling angiogenesis and lymphangiogenesis. *Current Opinion in Cell Biology*, **1998**, 10, 159-64	9	155
563	VEGF-C-driven lymphatic drainage enables immunosurveillance of brain tumours. *Nature*, **2020**, 577, 689-694	50.4	154
562	The transcription factor Prox1 is a marker for lymphatic endothelial cells in normal and diseased human tissues. *FASEB Journal*, **2002**, 16, 1271-3	0.9	154
561	Deletion of vascular endothelial growth factor C (VEGF-C) and VEGF-D is not equivalent to VEGF receptor 3 deletion in mouse embryos. *Molecular and Cellular Biology*, **2008**, 28, 4843-50	4.8	153
560	Preexisting lymphatic endothelium but not endothelial progenitor cells are essential for tumor lymphangiogenesis and lymphatic metastasis. *Cancer Research*, **2004**, 64, 3737-40	10.1	152
559	Vascular endothelial growth factor signaling in development and disease. *Development (Cambridge)* , **2018**, 145,	6.6	150
558	cKit Lineage Hemogenic Endothelium-Derived Cells Contribute to Mesenteric Lymphatic Vessels. *Cell Reports*, **2015**, 10, 1708-1721	10.6	150
557	CKIablation highlights a critical role for p53 in invasiveness control. *Nature*, **2011**, 470, 409-13	50.4	149
556	VEGF-C receptor binding and pattern of expression with VEGFR-3 suggests a role in lymphatic vascular development. *Development (Cambridge)*, **1996**, 122, 3829-37	6.6	148
555	Aberrant expression of an amplified c-myb oncogene in two cell lines from a colon carcinoma. *Proceedings of the National Academy of Sciences of the United States of America*, **1984**, 81, 4534-8	11.5	147
554	CCBE1 enhances lymphangiogenesis via A disintegrin and metalloprotease with thrombospondin motifs-3-mediated vascular endothelial growth factor-C activation. *Circulation*, **2014**, 129, 1962-71	16.7	146
553	VEGF-C is a trophic factor for neural progenitors in the vertebrate embryonic brain. *Nature Neuroscience*, **2006**, 9, 340-8	25.5	144
552	Vascular endothelial growth factor-B induces myocardium-specific angiogenesis and arteriogenesis via vascular endothelial growth factor receptor-1- and neuropilin receptor-1-dependent mechanisms. *Circulation*, **2009**, 119, 845-56	16.7	143
551	Novel p62dok family members, dok-4 and dok-5, are substrates of the c-Ret receptor tyrosine kinase and mediate neuronal differentiation. *Journal of Cell Biology*, **2001**, 154, 345-54	7.3	143
550	Endostatin associates with integrin alpha5beta1 and caveolin-1, and activates Src via a tyrosyl phosphatase-dependent pathway in human endothelial cells. *Cancer Research*, **2002**, 62, 5580-9	10.1	143
549	Genomic organization of the mouse and human genes for vascular endothelial growth factor B (VEGF-B) and characterization of a second splice isoform. *Journal of Biological Chemistry*, **1996**, 271, 19310-7	5.4	142
548	The Schlemm canal is a VEGF-C/VEGFR-3-responsive lymphatic-like vessel. *Journal of Clinical Investigation*, **2014**, 124, 3975-86	15.9	140

547	Transcription factor PROX1 induces colon cancer progression by promoting the transition from benign to highly dysplastic phenotype. *Cancer Cell*, **2008**, 13, 407-19	24.3	140
546	Distinct vascular endothelial growth factor signals for lymphatic vessel enlargement and sprouting. *Journal of Experimental Medicine*, **2007**, 204, 1431-40	16.6	137
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