Gou Young Koh

List of Publications by Year
in descending order

222 papers	27,194 citations	6592 79 h-index	6113 159 g-index
230 all docs	230 docs citations	230 times ranked	33193 citing authors

#	Article	IF	Citations
1	The gut microbiota as an environmental factor that regulates fat storage. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15718-15723.	3.3	5,131
2	Tie2/Angiopoietin-1 Signaling Regulates Hematopoietic Stem Cell Quiescence in the Bone Marrow Niche. Cell, 2004, 118, 149-161.	13.5	1,753
3	Control of vascular morphogenesis and homeostasis through the angiopoietinâ€“Tie system. Nature Reviews Molecular Cell Biology, 2009, 10, 165-177.	16.1	1,235
4	Vascular Endothelial Growth Factor Expression of Intercellular Adhesion Molecule 1 (ICAM-1), Vascular Cell Adhesion Molecule 1 (VCAM-1), and E-selectin through Nuclear Factor-ÌºB Activation in Endothelial Cells. Journal of Biological Chemistry, 2001, 276, 7614-7620.	1.6	667
5	Angiopoietin-1 Regulates Endothelial Cell Survival Through the Phosphatidylinositol 3â€²-Kinase/Akt Signal Transduction Pathway. Circulation Research, 2000, 86, 24-29.	2.0	573
6	Organotypic vasculature: From descriptive heterogeneity to functional pathophysiology. Science, 2017, 357, .	6.0	497
7	Meningeal lymphatic vessels at the skull base drain cerebrospinal fluid. Nature, 2019, 572, 62-66.	13.7	445
8	Angiopoietins assemble distinct Tie2 signalling complexes in endothelial cellâ€“cell and cellâ€“matrix contacts. Nature Cell Biology, 2008, 10, 527-537.	4.6	406
9	Critical role of CD11b+ macrophages and VEGF in inflammatory lymphangiogenesis, antigen clearance, and inflammation resolution. Blood, 2009, 113, 5650-5659.	0.6	363
10	Angiopoietin-1 Reduces VEGF-Stimulated Leukocyte Adhesion to Endothelial Cells by Reducing ICAM-1, VCAM-1, and E-Selectin Expression. Circulation Research, 2001, 89, 477-479.	2.0	326
11	Differential function of Tie2 at cellâ€“cell contacts and cellâ€“substratum contacts regulated by angiopoietin-1. Nature Cell Biology, 2008, 10, 513-526.	4.6	316
12	Angiopoietin-2 at high concentration can enhance endothelial cell survival through the phosphatidylinositol 3â€²-kinase/Akt signal transduction pathway. Oncogene, 2000, 19, 4549-4552.	2.6	295
13	Inhibition of Phosphatidylinositol 3-Kinase Enhances Mitogenic Actions of Insulin in Endothelial Cells. Journal of Biological Chemistry, 2002, 277, 1794-1799.	1.6	285
14	YAP/TAZ regulates sprouting angiogenesis and vascular barrier maturation. Journal of Clinical Investigation, 2017, 127, 3441-3461.	3.9	282
15	Tumor metastasis to lymph nodes requires YAP-dependent metabolic adaptation. Science, 2019, 363, 644-649.	6.0	276
16	Normalization of Tumor Vessels by Tie2 Activation and Ang2 Inhibition Enhances Drug Delivery and Produces a Favorable Tumor Microenvironment. Cancer Cell, 2016, 30, 953-967.	7.7	259
17	Angiogenic Role of LYVE-1â€“Positive Macrophages in Adipose Tissue. Circulation Research, 2007, 100, e47-57.	2.0	253
18	Adipose Vascular Endothelial Growth Factor Regulates Metabolic Homeostasis through Angiogenesis. Cell Metabolism, 2013, 17, 61-72.	7.2	252

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19	Angiopoietin-1 Induces Endothelial Cell Sprouting Through the Activation of Focal Adhesion Kinase and Plasmin Secretion. Circulation Research, 2000, 86, 952-959.	2.0	237
20	COMP-Ang1: A designed angiopoietin-1 variant with nonleaky angiogenic activity. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5547-5552.	3.3	236
21	Organ-specific lymphatic vasculature: From development to pathophysiology. Journal of Experimental Medicine, 2018, 215, 35-49.	4.2	231
22	Biological functions of lymphatic vessels. Science, 2020, 369, .	6.0	220
23	Coadministration of Angiopoietin-1 and Vascular Endothelial Growth Factor Enhances Collateral Vascularization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 2573-2578.	1.1	218
24	Angiopoietin-1 promotes LYVE-1-positive lymphatic vessel formation. Blood, 2005, 105, 4649-4656.	0.6	214
25	T Lymphocytes Negatively Regulate Lymph Node Lymphatic Vessel Formation. Immunity, 2011, 34, 96-107.	6.6	214
26	Plastic roles of pericytes in the bloodâ€“retinal barrier. Nature Communications, 2017, 8, 15296.	5.8	210
27	Angiopoietin-1 is an apoptosis survival factor for endothelial cells. FEBS Letters, 1999, 448, 249-253.	1.3	208
28	A specific requirement for PDGF-C in palate formation and PDGFR-Î± signaling. Nature Genetics, 2004, 36, 1111-1116.	9.4	199
29	Multiple angiopoietin recombinant proteins activate the Tie1 receptor tyrosine kinase and promote its interaction with Tie2. Journal of Cell Biology, 2005, 169, 239-243.	2.3	193
30	Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents. Journal of Clinical Investigation, 2010, 120, 1506-1514.	3.9	192
31	Tie1 controls angiopoietin function in vascular remodeling and inflammation. Journal of Clinical Investigation, 2016, 126, 3495-3510.	3.9	189
32	Overexpression of VEGF and Angiopoietin 2: A Key to High Vascularity of Hepatocellular Carcinoma?. Modern Pathology, 2003, 16, 552-557.	2.9	187
33	Effects of Angiopoietin-2-Blocking Antibody on Endothelial Cellâ€“Cell Junctions and Lung Metastasis. Journal of the National Cancer Institute, 2012, 104, 461-475.	3.0	186
34	Inflammation-associated lymphangiogenesis: a double-edged sword?. Journal of Clinical Investigation, 2014, 124, 936-942.	3.9	184
35	Molecular Cloning, Expression, and Characterization of Angiopoietin-related Protein. Journal of Biological Chemistry, 1999, 274, 26523-26528.	1.6	179
36	Adipose tissue is an extramedullary reservoir for functional hematopoietic stem and progenitor cells. Blood, 2010, 115, 957-964.	0.6	179

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37	Interfering with VE-PTP stabilizes endothelial junctions in vivo via Tie-2 in the absence of VE-cadherin. Journal of Experimental Medicine, 2015, 212, 2267-2287.	4.2	172
38	The spatiotemporal development of adipose tissue. Development (Cambridge), 2011, 138, 5027-5037.	1.2	165
39	EphB ligand, ephrinB2, suppresses the VEGFâ€•and angiopoietinâ€1â€induced Ras/mitogenâ€activated protein kinase pathway in venous endothelial cells. FASEB Journal, 2002, 16, 1126-1128.	0.2	164
40	Neutrophils disturb pulmonary microcirculation in sepsis-induced acuteÂlung injury. European Respiratory Journal, 2019, 53, 1800786.	3.1	160
41	Methylation-dependent regulation of HIF-1Î± stability restricts retinal and tumour angiogenesis. Nature Communications, 2016, 7, 10347.	5.8	159
42	CXCR4 Signaling Regulates Metastasis of Chemoresistant Melanoma Cells by a Lymphatic Metastatic Niche. Cancer Research, 2010, 70, 10411-10421.	0.4	153
43	Amelioration of sepsis by TIE2 activationâ€“induced vascular protection. Science Translational Medicine, 2016, 8, 335ra55.	5.8	151
44	COMP-angiopoietin-1 promotes wound healing through enhanced angiogenesis, lymphangiogenesis, and blood flow in a diabetic mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4946-4951.	3.3	150
45	Orchestral actions of angiopoietin-1 in vascular regeneration. Trends in Molecular Medicine, 2013, 19, 31-39.	3.5	146
46	Biological characterization of angiopoietinâ€3 and angiopoietinâ€4. FASEB Journal, 2004, 18, 1200-1208.	0.2	144
47	<scp>VEGF</scp>â€<scp>A</scp> regulated by progesterone governs uterine angiogenesis and vascular remodelling during pregnancy. EMBO Molecular Medicine, 2013, 5, 1415-1430.	3.3	141
48	Lymphatic regulator PROX1 determines Schlemmâ€™s canal integrity and identity. Journal of Clinical Investigation, 2014, 124, 3960-3974.	3.9	141
49	Double Antiangiogenic Protein, DAAP, Targeting VEGF-A and Angiopoietins in Tumor Angiogenesis, Metastasis, and Vascular Leakage. Cancer Cell, 2010, 18, 171-184.	7.7	137
50	Designed angiopoietin-1 variant, COMP-Ang1, protects against radiation-induced endothelial cell apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5553-5558.	3.3	134
51	Oligomerization and Multimerization Are Critical for Angiopoietin-1 to Bind and Phosphorylate Tie2. Journal of Biological Chemistry, 2005, 280, 20126-20131.	1.6	134
52	Stromal Vascular Fraction From Adipose Tissue Forms Profound Vascular Network Through the Dynamic Reassembly of Blood Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1141-1150.	1.1	131
53	Long-Term and Sustained COMP-Ang1 Induces Long-Lasting Vascular Enlargement and Enhanced Blood Flow. Circulation Research, 2005, 97, 86-94.	2.0	123
54	VE-PTP regulates VEGFR2 activity in stalk cells to establish endothelial cell polarity and lumen formation. Nature Communications, 2013, 4, 1672.	5.8	120

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55	Profound but Dysfunctional Lymphangiogenesis via Vascular Endothelial Growth Factor Ligands from CD11b+ Macrophages in Advanced Ovarian Cancer. Cancer Research, 2008, 68, 1100-1109.	0.4	114
56	YAP/TAZ Initiates Gastric Tumorigenesis via Upregulation of MYC. Cancer Research, 2018, 78, 3306-3320.	0.4	114
57	Role of CD11b+ Macrophages in Intraperitoneal Lipopolysaccharide-Induced Aberrant Lymphangiogenesis and Lymphatic Function in the Diaphragm. American Journal of Pathology, 2009, 175, 1733-1745.	1.9	113
58	Angiopoietin-1 Guides Directional Angiogenesis Through Integrin Î± _v Î² ₅ Signaling for Recovery of Ischemic Retinopathy. Science Translational Medicine, 2013, 5, 203ra127.	5.8	113
59	Toll-like receptor 4 in lymphatic endothelial cells contributes to LPS-induced lymphangiogenesis by chemotactic recruitment of macrophages. Blood, 2009, 113, 2605-2613.	0.6	110
60	Angiopoietin-1/Tie2 Signal Augments Basal Notch Signal Controlling Vascular Quiescence by Inducing Delta-Like 4 Expression through AKT-mediated Activation of Î²-Catenin. Journal of Biological Chemistry, 2011, 286, 8055-8066.	1.6	109
61	Vascular RhoJ Is an Effective and Selective Target for Tumor Angiogenesis and Vascular Disruption. Cancer Cell, 2014, 25, 102-117.	7.7	109
62	Adipocytokine Orosomucoid Integrates Inflammatory and Metabolic Signals to Preserve Energy Homeostasis by Resolving Immoderate Inflammation. Journal of Biological Chemistry, 2010, 285, 22174-22185.	1.6	108
63	Efficient differentiation of human pluripotent stem cells into functional CD34+ progenitor cells by combined modulation of the MEK/ERK and BMP4 signaling pathways. Blood, 2010, 116, 5762-5772.	0.6	107
64	Angiopoietin-2 exacerbates cardiac hypoxia and inflammation after myocardial infarction. Journal of Clinical Investigation, 2018, 128, 5018-5033.	3.9	107
65	Suppression of angiogenesis by the plant alkaloid, sanguinarine. Biochemical and Biophysical Research Communications, 2004, 317, 618-624.	1.0	103
66	Regulated Proteolytic Processing of Tie1 Modulates Ligand Responsiveness of the Receptor-tyrosine Kinase Tie2. Journal of Biological Chemistry, 2007, 282, 30509-30517.	1.6	100
67	Dose-dependent Biphasic Activity of tRNA Synthetase-associating Factor, p43, in Angiogenesis. Journal of Biological Chemistry, 2002, 277, 45243-45248.	1.6	99
68	Vegfc is required for vascular development and endoderm morphogenesis in zebrafish. EMBO Reports, 2004, 5, 78-84.	2.0	98
69	Impaired angiopoietin/Tie2 signaling compromises Schlemmâ€™s canal integrity and induces glaucoma. Journal of Clinical Investigation, 2017, 127, 3877-3896.	3.9	98
70	The mouse Pdgfc gene: dynamic expression in embryonic tissues during organogenesis. Mechanisms of Development, 2000, 96, 209-213.	1.7	96
71	Bone morphogenetic protein-9 inhibits lymphatic vessel formation via activin receptor-like kinase 1 during development and cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18940-18945.	3.3	95
72	Tumor Necrosis Factor-Î± Upregulates Angiopoietin-2 in Human Umbilical Vein Endothelial Cells. Biochemical and Biophysical Research Communications, 2000, 269, 361-365.	1.0	93

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73	Gut microbiota regulates lacteal integrity by inducing VEGFâ€€ in intestinal villus macrophages. EMBO Reports, 2019, 20, .	2.0	93
74	Lipopolysaccharide Activates Matrix Metalloproteinase-2 in Endothelial Cells through an NF-îºB-Dependent Pathway. Biochemical and Biophysical Research Communications, 2000, 269, 401-405.	1.0	90
75	Cooperative interaction of Angiopoietin-like proteins 1 and 2 in zebrafish vascular development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13502-13507.	3.3	89
76	Intravital imaging of intestinal lacteals unveils lipid drainage through contractility. Journal of Clinical Investigation, 2015, 125, 4042-4052.	3.9	88
77	Shear stress activates Tie2 receptor tyrosine kinase in human endothelial cells. Biochemical and Biophysical Research Communications, 2003, 304, 399-404.	1.0	87
78	Angiopoietin-1 Inhibits Irradiation- and Mannitol-Induced Apoptosis in Endothelial Cells. Circulation, 2000, 101, 2317-2324.	1.6	82
79	COMPâ€“Angiopoietin-1 Ameliorates Renal Fibrosis in a Unilateral Ureteral Obstruction Model. Journal of the American Society of Nephrology: JASN, 2006, 17, 2474-2483.	3.0	82
80	Hydrogen Peroxide Produced by Angiopoietin-1 Mediates Angiogenesis. Cancer Research, 2006, 66, 6167-6174.	0.4	82
81	Notch Pathway Targets Proangiogenic Regulator Sox17 to Restrict Angiogenesis. Circulation Research, 2014, 115, 215-226.	2.0	81
82	Bone marrowâ€“derived circulating progenitor cells fail to transdifferentiate into adipocytes in adult adipose tissues in mice. Journal of Clinical Investigation, 2007, 117, 3684-3695.	3.9	80
83	Tumor Necrosis Factor-Î± Induces Fractalkine Expression Preferentially in Arterial Endothelial Cells and Mithramycin A Suppresses TNF-Î±-Induced Fractalkine Expression. American Journal of Pathology, 2004, 164, 1663-1672.	1.9	79
84	Tie1 deletion inhibits tumor growth and improves angiopoietin antagonist therapy. Journal of Clinical Investigation, 2014, 124, 824-834.	3.9	78
85	Combined Angiopoietin-1 and vascular endothelial growth factor gene transfer restores cavernous angiogenesis and erectile function in a rat model of hypercholesterolemia. Molecular Therapy, 2006, 13, 705-715.	3.7	77
86	Pericyte Requirement for Anti-Leak Action of Angiopoietin-1 and Vascular Remodeling in Sustained Inflammation. American Journal of Pathology, 2011, 178, 2897-2909.	1.9	75
87	In Vivo Actions of Angiopoietins on Quiescent and Remodeling Blood and Lymphatic Vessels in Mouse Airways and Skin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 564-570.	1.1	74
88	Angptl 4 deficiency improves lipid metabolism, suppresses foam cell formation and protects against atherosclerosis. Biochemical and Biophysical Research Communications, 2009, 379, 806-811.	1.0	73
89	Bioluminescence-Activated Deep-Tissue Photodynamic Therapy of Cancer. Theranostics, 2015, 5, 805-817.	4.6	72
90	Pulmonary pericytes regulate lung morphogenesis. Nature Communications, 2018, 9, 2448.	5.8	72

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91	Intracavernous Delivery of a Designed Angiopoietin-1 Variant Rescues Erectile Function by Enhancing Endothelial Regeneration in the Streptozotocin-Induced Diabetic Mouse. Diabetes, 2011, 60, 969-980.	0.3	69
92	Renoprotective effect of COMP-angiopoietin-1 in db/db mice with type 2 diabetes. Nephrology Dialysis Transplantation, 2006, 22, 396-408.	0.4	68
93	Characteristics of distension-induced release of immunoreactive atrial natriuretic peptide in isolated perfused rabbit atria. Regulatory Peptides, 1988, 22, 333-345.	1.9	67
94	Betacellulin and Amphiregulin Induce Upregulation of Cyclin D1 and DNA Synthesis Activity Through Differential Signaling Pathways in Vascular Smooth Muscle Cells. Circulation Research, 2003, 93, 302-310.	2.0	67
95	YAP and TAZ Negatively Regulate Prox1 During Developmental and Pathologic Lymphangiogenesis. Circulation Research, 2019, 124, 225-242.	2.0	67
96	Molecular Determinants of the Clearance Function of Type C Receptors of Natriuretic Peptides. Journal of Biological Chemistry, 1996, 271, 9863-9869.	1.6	65
97	A MST1â€“FOXO1 cascade establishes endothelial tip cell polarity and facilitates sprouting angiogenesis. Nature Communications, 2019, 10, 838.	5.8	65
98	Molecular cloning and characterization of a novel angiopoietin family protein, angiopoietin-3. FEBS Letters, 1999, 443, 353-356.	1.3	64
99	Betacellulin induces angiogenesis through activation of mitogenâ€activated protein kinase and phosphatidylinositol 3â€™â€kinase in endothelial cells. FASEB Journal, 2003, 17, 318-320.	0.2	64
100	Perilipin+ embryonic preadipocytes actively proliferate along growing vasculatures for adipose expansion. Development (Cambridge), 2015, 142, 2623-2632.	1.2	63
101	Nuclear factor kappaB dependency of platelet-activating factor-induced angiogenesis. Cancer Research, 2002, 62, 1809-14.	0.4	63
102	Deficiency of Endothelium-Specific Transcription Factor Sox17 Induces Intracranial Aneurysm. Circulation, 2015, 131, 995-1005.	1.6	62
103	A murine model of toluene diisocyanateâ€“induced asthma can be treated with matrix metalloproteinase inhibitor. Journal of Allergy and Clinical Immunology, 2001, 108, 1021-1026.	1.5	61
104	Protective Effect of Î±-Lipoic Acid in Lipopolysaccharide-Induced Endothelial Fractalkine Expression. Circulation Research, 2005, 97, 880-890.	2.0	61
105	Conditional ablation of LYVE-1+ cells unveils defensive roles of lymphatic vessels in intestine and lymph nodes. Blood, 2013, 122, 2151-2161.	0.6	61
106	Lymphatic development in mouse small intestine. Developmental Dynamics, 2007, 236, 2020-2025.	0.8	60
107	Angiopoietin-1 Induces KrÃ¼ppel-like Factor 2 Expression through a Phosphoinositide 3-Kinase/AKT-dependent Activation of Myocyte Enhancer Factor 2. Journal of Biological Chemistry, 2009, 284, 5592-5601.	1.6	60
108	Gab family proteins are essential for postnatal maintenance of cardiac function via neuregulin-1/ErbB signaling. Journal of Clinical Investigation, 2007, 117, 1771-1781.	3.9	60

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109	Characterization and Expression of a Novel Alternatively Spliced Human Angiopoietin-2. Journal of Biological Chemistry, 2000, 275, 18550-18556.	1.6	59
110	SoxF Transcription Factors Are Positive Feedback Regulators of VEGF Signaling. Circulation Research, 2016, 119, 839-852.	2.0	59
111	Angiopoietin receptor Tie2 is required for vein specification and maintenance via regulating COUP-TFII. ELife, 2016, 5, .	2.8	59
112	Angiopoietin-1 Overexpression Modulates Vascular Endothelium to Facilitate Tumor Cell Dissemination and Metastasis Establishment. Cancer Research, 2009, 69, 4656-4664.	0.4	57
113	Fibroblast activation protein Î± identifies mesenchymal stromal cells from human bone marrow. British Journal of Haematology, 2008, 142, 827-830.	1.2	56
114	Control of endothelial quiescence by FOXO-regulated metabolites. Nature Cell Biology, 2021, 23, 413-423.	4.6	56
115	Differential and Dramatic Changes of Cyclin-dependent Kinase Activities in Cardiomyocytes During the Neonatal Period. Journal of Molecular and Cellular Cardiology, 1997, 29, 1767-1777.	0.9	55
116	Inhibition of Ninjurin 1 restores erectile function through dual angiogenic and neurotrophic effects in the diabetic mouse. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2731-40.	3.3	54
117	Vascular Endothelial Growth Factor-Angiopoietin Chimera With Improved Properties for Therapeutic Angiogenesis. Circulation, 2013, 127, 424-434.	1.6	53
118	Dual Modulation of the Mitochondrial Permeability Transition Pore and Redox Signaling Synergistically Promotes Cardiomyocyte Differentiation From Pluripotent Stem Cells. Journal of the American Heart Association, 2014, 3, e000693.	1.6	52
119	Cytoplasmic Localization of Cyclin D3 in Seminiferous Tubules during Testicular Development. Experimental Cell Research, 1997, 234, 27-36.	1.2	51
120	Angiopoietin-1 Suppresses Choroidal Neovascularization and Vascular Leakage. , 2014, 55, 2191.		51
121	YAP1 and TAZ negatively control bone angiogenesis by limiting hypoxia-inducible factor signaling in endothelial cells. ELife, 2020, 9, .	2.8	51
122	Activation of PPARÎ³ induces profound multilocularization of adipocytes in adult mouse white adipose tissues. Experimental and Molecular Medicine, 2009, 41, 880.	3.2	50
123	AMIGO2, a novel membrane anchor of PDK1, controls cell survival and angiogenesis via Akt activation. Journal of Cell Biology, 2015, 211, 619-637.	2.3	49
124	Quantitative Analysis of Peripheral Tissue Perfusion Using Spatiotemporal Molecular Dynamics. PLoS ONE, 2009, 4, e4275.	1.1	48
125	Biomedical significance of endothelial cell specific growth factor, angiopoietin. Experimental and Molecular Medicine, 2002, 34, 1-11.	3.2	47
126	Reversing the Intractable Nature of Pancreatic Cancer by Selectively Targeting ALDH-High, Therapy-Resistant Cancer Cells. PLoS ONE, 2013, 8, e78130.	1.1	47

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127	Persistent and Heterogenous Expression of the Cyclin-dependent Kinase Inhibitor, p27KIP1, in Rat Hearts During Development. Journal of Molecular and Cellular Cardiology, 1998, 30, 463-474.	0.9	45
128	Angiopoietin-2 Exocytosis Is Stimulated by Sphingosine-1-Phosphate in Human Blood and Lymphatic Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 401-407.	1.1	43
129	Cerebral amyloid angiopathy aggravates perivascular clearance impairment in an Alzheimerâ€™s disease mouse model. Acta Neuropathologica Communications, 2020, 8, 181.	2.4	42
130	Membrane proteomic analysis of human mesenchymal stromal cells during adipogenesis. Proteomics, 2007, 7, 4181-4191.	1.3	40
131	Intracavernous Delivery of Synthetic Angiopoietin-1 Protein as a Novel Therapeutic Strategy for Erectile Dysfunction in the Type II Diabetic db/db Mouse. Journal of Sexual Medicine, 2010, 7, 3635-3646.	0.3	40
132	Angiopoietins contribute to lung development by regulating pulmonary vascular network formation. Biochemical and Biophysical Research Communications, 2009, 381, 218-223.	1.0	39
133	Tie2 activation promotes choriocapillary regeneration for alleviating neovascular age-related macular degeneration. Science Advances, 2019, 5, eaau6732.	4.7	39
134	Localization of Tie2 and phospholipase D in endothelial caveolae is involved in angiopoietin-1-induced MEK/ERK phosphorylation and migration in endothelial cells. Biochemical and Biophysical Research Communications, 2003, 308, 101-105.	1.0	38
135	Double Anti-angiogenic and Anti-inflammatory Protein Valpha Targeting VEGF-A and TNF-Î± in Retinopathy and Psoriasis. Journal of Biological Chemistry, 2011, 286, 14410-14418.	1.6	38
136	Endothelial Deletion of Phospholipase D2 Reduces Hypoxic Response and Pathological Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1697-1703.	1.1	38
137	Direct endothelial junction restoration results in significant tumor vascular normalization and metastasis inhibition in mice. Oncotarget, 2014, 5, 2761-2777.	0.8	38
138	Sox7 promotes high-grade glioma by increasing VEGFR2-mediated vascular abnormality. Journal of Experimental Medicine, 2018, 215, 963-983.	4.2	36
139	Distinct fibroblast subsets regulate lacteal integrity through YAP/TAZ-induced VEGF-C in intestinal villi. Nature Communications, 2020, 11, 4102.	5.8	36
140	YAP/TAZ direct commitment and maturation of lymph node fibroblastic reticular cells. Nature Communications, 2020, 11, 519.	5.8	35
141	Renal tubule regeneration after ischemic injury is coupled to the up-regulation and activation of cyclins and cyclin dependent kinases. Kidney International, 1997, 52, 706-714.	2.6	34
142	Intracavernous Delivery of Freshly Isolated Stromal Vascular Fraction Rescues Erectile Function by Enhancing Endothelial Regeneration in the Streptozotocin-Induced Diabetic Mouse. Journal of Sexual Medicine, 2012, 9, 3051-3065.	0.3	34
143	TRAIL negatively regulates VEGF-induced angiogenesis via caspase-8-mediated enzymatic and non-enzymatic functions. Angiogenesis, 2014, 17, 179-194.	3.7	34
144	Reprogramming of mouse somatic cells into pluripotent stem-like cells using a combination of small molecules. Biomaterials, 2014, 35, 7336-7345.	5.7	34

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145	Angiopoietin-1 variant, COMP-Ang1 attenuates hydrogen peroxide-induced acute lung injury. Experimental and Molecular Medicine, 2008, 40, 320.	3.2	32
146	Presence of immunoreactive atrial natriuretic peptide in follicular fluid, ovary and ovarian perfusates. Life Sciences, 1989, 45, 1581-1589.	2.0	31
147	Characterization of ANGPT2 mutations associated with primary lymphedema. Science Translational Medicine, 2020, 12, .	5.8	31
148	Alpha-lipoic acid inhibits fractalkine expression and prevents neointimal hyperplasia after balloon injury in rat carotid artery. Atherosclerosis, 2006, 189, 106-114.	0.4	30
149	Angiopoietin-2â€“integrin Î±5Î²1 signaling enhances vascular fatty acid transport and prevents ectopic lipid-induced insulin resistance. Nature Communications, 2020, 11, 2980.	5.8	30
150	Angiopoietin-1 prevents hypertension and target organ damage through its interaction with endothelial Tie2 receptor. Cardiovascular Research, 2008, 78, 572-580.	1.8	29
151	A Designed Angiopoietin-1 Variant, Dimeric CMP-Ang1 Activates Tie2 and Stimulates Angiogenesis and Vascular Stabilization in N-glycan Dependent Manner. Scientific Reports, 2015, 5, 15291.	1.6	29
152	Enhanced thrombospondin-1 causes dysfunction of vascular endothelial cells derived from Fabry disease-induced pluripotent stem cells. EBioMedicine, 2020, 52, 102633.	2.7	28
153	A Novel Zinc Finger Protein That Inhibits Osteoclastogenesis and the Function of Tumor Necrosis Factor Receptor-associated Factor 6. Journal of Biological Chemistry, 2002, 277, 8346-8353.	1.6	27
154	Genome-Wide Differential Gene Expression Profiling of Human Bone Marrow Stromal Cells. Stem Cells, 2007, 25, 994-1002.	1.4	27
155	Carbohydrate-binding protein CLEC14A regulates VEGFR-2â€“ and VEGFR-3â€“dependent signals during angiogenesis and lymphangiogenesis. Journal of Clinical Investigation, 2016, 127, 457-471.	3.9	27
156	Protective role of COMPâ€Ang1 in ischemic rat brain. Journal of Neuroscience Research, 2010, 88, 1052-1063.	1.3	26
157	Coordinated lymphangiogenesis is critical in lymph node development and maturation. Developmental Dynamics, 2016, 245, 1189-1197.	0.8	26
158	Myocardial Angiopoietin-1 Controls Atrial Chamber Morphogenesis by Spatiotemporal Degradation of Cardiac Jelly. Cell Reports, 2018, 23, 2455-2466.	2.9	26
159	Angiopoietin-2 blockade ameliorates autoimmune neuroinflammation by inhibiting leukocyte recruitment into the CNS. Journal of Clinical Investigation, 2020, 130, 1977-1990.	3.9	26
160	Protective effect of adrenomedullin in mannitol-induced apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2002, 7, 527-536.	2.2	25
161	Sequential mechanism of atrial natriuretic peptide secretion in isolated perfused rabbit atria. Biochemical and Biophysical Research Communications, 1990, 172, 423-431.	1.0	24
162	Ligand oligomerization state controls Tie2 receptor trafficking and Angiopoietin-2 ligand-specific responses. Journal of Cell Science, 2012, 125, 2212-23.	1.2	24

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163	Novel Glycosylated VEGF Decoy Receptor Fusion Protein, VEGF-Grab, Efficiently Suppresses Tumor Angiogenesis and Progression. Molecular Cancer Therapeutics, 2015, 14, 470-479.	1.9	24
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