

Gou Young Koh

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217
papers

21,729
citations

73
h-index

144
g-index

230
ext. papers

24,686
ext. citations

9.7
avg, IF

6.64
L-index

#	Paper	IF	Citations
217	The gut microbiota as an environmental factor that regulates fat storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 15718-23	11.5	4063
216	Tie2/angiopoietin-1 signaling regulates hematopoietic stem cell quiescence in the bone marrow niche. <i>Cell</i> , 2004 , 118, 149-61	56.2	1579
215	Control of vascular morphogenesis and homeostasis through the angiopoietin-Tie system. <i>Nature Reviews Molecular Cell Biology</i> , 2009 , 10, 165-77	48.7	1051
214	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-kappa B activation in endothelial cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 7614-20	5.4	569
213	Angiopoietin-1 regulates endothelial cell survival through the phosphatidylinositol 3Kinase/Akt signal transduction pathway. <i>Circulation Research</i> , 2000 , 86, 24-9	15.7	517
212	Angiopoietins assemble distinct Tie2 signalling complexes in endothelial cell-cell and cell-matrix contacts. <i>Nature Cell Biology</i> , 2008 , 10, 527-37	23.4	348
211	Organotypic vasculature: From descriptive heterogeneity to functional pathophysiology. <i>Science</i> , 2017 , 357,	33.3	295
210	Critical role of CD11b+ macrophages and VEGF in inflammatory lymphangiogenesis, antigen clearance, and inflammation resolution. <i>Blood</i> , 2009 , 113, 5650-9	2.2	295
209	Angiopoietin-1 reduces VEGF-stimulated leukocyte adhesion to endothelial cells by reducing ICAM-1, VCAM-1, and E-selectin expression. <i>Circulation Research</i> , 2001 , 89, 477-9	15.7	289
208	Differential function of Tie2 at cell-cell contacts and cell-substratum contacts regulated by angiopoietin-1. <i>Nature Cell Biology</i> , 2008 , 10, 513-26	23.4	285
207	Angiopoietin-2 at high concentration can enhance endothelial cell survival through the phosphatidylinositol 3Kinase/Akt signal transduction pathway. <i>Oncogene</i> , 2000 , 19, 4549-52	9.2	270
206	Inhibition of phosphatidylinositol 3-kinase enhances mitogenic actions of insulin in endothelial cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1794-9	5.4	242
205	Meningeal lymphatic vessels at the skull base drain cerebrospinal fluid. <i>Nature</i> , 2019 , 572, 62-66	50.4	227
204	Angiopoietin-1 induces endothelial cell sprouting through the activation of focal adhesion kinase and plasmin secretion. <i>Circulation Research</i> , 2000 , 86, 952-9	15.7	220
203	COMP-Ang1: a designed angiopoietin-1 variant with nonleaky angiogenic activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5547-52	11.5	219
202	Coadministration of angiopoietin-1 and vascular endothelial growth factor enhances collateral vascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 2573-8	9.4	204
201	Angiopoietin-1 promotes LYVE-1-positive lymphatic vessel formation. <i>Blood</i> , 2005 , 105, 4649-56	2.2	202

200	Adipose vascular endothelial growth factor regulates metabolic homeostasis through angiogenesis. <i>Cell Metabolism</i> , 2013 , 17, 61-72	24.6	199
199	Angiogenic role of LYVE-1-positive macrophages in adipose tissue. <i>Circulation Research</i> , 2007 , 100, e47-57	57.7	199
198	YAP/TAZ regulates sprouting angiogenesis and vascular barrier maturation. <i>Journal of Clinical Investigation</i> , 2017 , 127, 3441-3461	15.9	188
197	Angiopietin-1 is an apoptosis survival factor for endothelial cells. <i>FEBS Letters</i> , 1999 , 448, 249-53	3.8	184
196	A specific requirement for PDGF-C in palate formation and PDGFR-alpha signaling. <i>Nature Genetics</i> , 2004 , 36, 1111-6	36.3	174
195	Normalization of Tumor Vessels by Tie2 Activation and Ang2 Inhibition Enhances Drug Delivery and Produces a Favorable Tumor Microenvironment. <i>Cancer Cell</i> , 2016 , 30, 953-967	24.3	171
194	T lymphocytes negatively regulate lymph node lymphatic vessel formation. <i>Immunity</i> , 2011 , 34, 96-107	32.3	166
193	Multiple angiopietin recombinant proteins activate the Tie1 receptor tyrosine kinase and promote its interaction with Tie2. <i>Journal of Cell Biology</i> , 2005 , 169, 239-43	7.3	166
192	Overexpression of VEGF and angiopietin 2: a key to high vascularity of hepatocellular carcinoma?. <i>Modern Pathology</i> , 2003 , 16, 552-7	9.8	162
191	Effects of angiopietin-2-blocking antibody on endothelial cell-cell junctions and lung metastasis. <i>Journal of the National Cancer Institute</i> , 2012 , 104, 461-75	9.7	158
190	Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1506-14	15.9	153
189	EphB ligand, ephrinB2, suppresses the VEGF- and angiopietin 1-induced Ras/mitogen-activated protein kinase pathway in venous endothelial cells. <i>FASEB Journal</i> , 2002 , 16, 1126-8	0.9	150
188	Organ-specific lymphatic vasculature: From development to pathophysiology. <i>Journal of Experimental Medicine</i> , 2018 , 215, 35-49	16.6	150
187	Inflammation-associated lymphangiogenesis: a double-edged sword?. <i>Journal of Clinical Investigation</i> , 2014 , 124, 936-42	15.9	149
186	Plastic roles of pericytes in the blood-retinal barrier. <i>Nature Communications</i> , 2017 , 8, 15296	17.4	148
185	Molecular cloning, expression, and characterization of angiopietin-related protein. angiopietin-related protein induces endothelial cell sprouting. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26523-8	5.4	148
184	Adipose tissue is an extramedullary reservoir for functional hematopoietic stem and progenitor cells. <i>Blood</i> , 2010 , 115, 957-64	2.2	147
183	Tumor metastasis to lymph nodes requires YAP-dependent metabolic adaptation. <i>Science</i> , 2019 , 363, 644-649	33.3	142

182	COMP-angiopoietin-1 promotes wound healing through enhanced angiogenesis, lymphangiogenesis, and blood flow in a diabetic mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4946-51	11.5	137
181	CXCR4 signaling regulates metastasis of chemoresistant melanoma cells by a lymphatic metastatic niche. <i>Cancer Research</i> , 2010 , 70, 10411-21	10.1	135
180	Biological characterization of angiopoietin-3 and angiopoietin-4. <i>FASEB Journal</i> , 2004 , 18, 1200-8	0.9	130
179	Double antiangiogenic protein, DAAP, targeting VEGF-A and angiopoietins in tumor angiogenesis, metastasis, and vascular leakage. <i>Cancer Cell</i> , 2010 , 18, 171-84	24.3	124
178	Designed angiopoietin-1 variant, COMP-Ang1, protects against radiation-induced endothelial cell apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5553-8	11.5	122
177	Oligomerization and multimerization are critical for angiopoietin-1 to bind and phosphorylate Tie2. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20126-31	5.4	122
176	The spatiotemporal development of adipose tissue. <i>Development (Cambridge)</i> , 2011 , 138, 5027-37	6.6	121
175	Interfering with VE-PTP stabilizes endothelial junctions in vivo via Tie-2 in the absence of VE-cadherin. <i>Journal of Experimental Medicine</i> , 2015 , 212, 2267-87	16.6	119
174	Tie1 controls angiopoietin function in vascular remodeling and inflammation. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3495-510	15.9	119
173	Amelioration of sepsis by TIE2 activation-induced vascular protection. <i>Science Translational Medicine</i> , 2016 , 8, 335ra55	17.5	117
172	Long-term and sustained COMP-Ang1 induces long-lasting vascular enlargement and enhanced blood flow. <i>Circulation Research</i> , 2005 , 97, 86-94	15.7	114
171	Orchestral actions of angiopoietin-1 in vascular regeneration. <i>Trends in Molecular Medicine</i> , 2013 , 19, 31-9	11.5	111
170	Lymphatic regulator PROX1 determines Schlemm's canal integrity and identity. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3960-74	15.9	110
169	Stromal vascular fraction from adipose tissue forms profound vascular network through the dynamic reassembly of blood endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1141-50	9.4	109
168	Profound but dysfunctional lymphangiogenesis via vascular endothelial growth factor ligands from CD11b+ macrophages in advanced ovarian cancer. <i>Cancer Research</i> , 2008 , 68, 1100-9	10.1	106
167	VEGF-A regulated by progesterone governs uterine angiogenesis and vascular remodelling during pregnancy. <i>EMBO Molecular Medicine</i> , 2013 , 5, 1415-30	12	105
166	VE-PTP regulates VEGFR2 activity in stalk cells to establish endothelial cell polarity and lumen formation. <i>Nature Communications</i> , 2013 , 4, 1672	17.4	103
165	Methylation-dependent regulation of HIF-1 β stability restricts retinal and tumour angiogenesis. <i>Nature Communications</i> , 2016 , 7, 10347	17.4	102

164	Role of CD11b+ macrophages in intraperitoneal lipopolysaccharide-induced aberrant lymphangiogenesis and lymphatic function in the diaphragm. <i>American Journal of Pathology</i> , 2009 , 175, 1733-45	5.8	97
163	Toll-like receptor 4 in lymphatic endothelial cells contributes to LPS-induced lymphangiogenesis by chemotactic recruitment of macrophages. <i>Blood</i> , 2009 , 113, 2605-13	2.2	95
162	Angiopoietin-1/Tie2 signal augments basal Notch signal controlling vascular quiescence by inducing delta-like 4 expression through AKT-mediated activation of beta-catenin. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8055-8066	5.4	92
161	Suppression of angiogenesis by the plant alkaloid, sanguinarine. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 317, 618-24	3.4	92
160	Efficient differentiation of human pluripotent stem cells into functional CD34+ progenitor cells by combined modulation of the MEK/ERK and BMP4 signaling pathways. <i>Blood</i> , 2010 , 116, 5762-72	2.2	91
159	Vascular RhoJ is an effective and selective target for tumor angiogenesis and vascular disruption. <i>Cancer Cell</i> , 2014 , 25, 102-17	24.3	90
158	Angiopoietin-1 guides directional angiogenesis through integrin $\alpha 5 \beta 1$ signaling for recovery of ischemic retinopathy. <i>Science Translational Medicine</i> , 2013 , 5, 203ra127	17.5	90
157	Tumor necrosis factor-alpha upregulates angiopoietin-2 in human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 269, 361-5	3.4	89
156	The mouse Pdgfc gene: dynamic expression in embryonic tissues during organogenesis. <i>Mechanisms of Development</i> , 2000 , 96, 209-13	1.7	89
155	Vegfc is required for vascular development and endoderm morphogenesis in zebrafish. <i>EMBO Reports</i> , 2004 , 5, 78-84	6.5	86
154	Dose-dependent biphasic activity of tRNA synthetase-associating factor, p43, in angiogenesis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 45243-8	5.4	86
153	Biological functions of lymphatic vessels. <i>Science</i> , 2020 , 369,	33.3	85
152	Regulated proteolytic processing of Tie1 modulates ligand responsiveness of the receptor-tyrosine kinase Tie2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30509-17	5.4	85
151	Adipocytokine orosomucoid integrates inflammatory and metabolic signals to preserve energy homeostasis by resolving immoderate inflammation. <i>Journal of Biological Chemistry</i> , 2010 , 285, 22174-85	5.4	84
150	Lipopolysaccharide activates matrix metalloproteinase-2 in endothelial cells through an NF-kappaB-dependent pathway. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 269, 401-5	3.4	84
149	Hydrogen peroxide produced by angiopoietin-1 mediates angiogenesis. <i>Cancer Research</i> , 2006 , 66, 6167-71	7.4	79
148	Cooperative interaction of Angiopoietin-like proteins 1 and 2 in zebrafish vascular development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13502-7	11.5	79
147	Bone morphogenetic protein-9 inhibits lymphatic vessel formation via activin receptor-like kinase 1 during development and cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18940-5	11.5	77

146	Angiopoietin-1 inhibits irradiation- and mannitol-induced apoptosis in endothelial cells. <i>Circulation</i> , 2000 , 101, 2317-24	16.7	76
145	Combined angiopoietin-1 and vascular endothelial growth factor gene transfer restores cavernous angiogenesis and erectile function in a rat model of hypercholesterolemia. <i>Molecular Therapy</i> , 2006 , 13, 705-15	11.7	73
144	Bone marrow-derived circulating progenitor cells fail to transdifferentiate into adipocytes in adult adipose tissues in mice. <i>Journal of Clinical Investigation</i> , 2007 , 117, 3684-95	15.9	73
143	Shear stress activates Tie2 receptor tyrosine kinase in human endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 399-404	3.4	72
142	YAP/TAZ Initiates Gastric Tumorigenesis via Upregulation of MYC. <i>Cancer Research</i> , 2018 , 78, 3306-3320	10.1	71
141	COMP-angiopoietin-1 ameliorates renal fibrosis in a unilateral ureteral obstruction model. <i>Journal of the American Society of Nephrology: JASN</i> , 2006 , 17, 2474-83	12.7	71
140	In vivo actions of angiopoietins on quiescent and remodeling blood and lymphatic vessels in mouse airways and skin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 564-70	9.4	68
139	Tumor necrosis factor-alpha induces fractalkine expression preferentially in arterial endothelial cells and mithramycin A suppresses TNF-alpha-induced fractalkine expression. <i>American Journal of Pathology</i> , 2004 , 164, 1663-72	5.8	67
138	Characteristics of distension-induced release of immunoreactive atrial natriuretic peptide in isolated perfused rabbit atria. <i>Regulatory Peptides</i> , 1988 , 22, 333-45		66
137	Renoprotective effect of COMP-angiopoietin-1 in db/db mice with type 2 diabetes. <i>Nephrology Dialysis Transplantation</i> , 2007 , 22, 396-408	4.3	65
136	Pericyte requirement for anti-leak action of angiopoietin-1 and vascular remodeling in sustained inflammation. <i>American Journal of Pathology</i> , 2011 , 178, 2897-909	5.8	64
135	Angptl 4 deficiency improves lipid metabolism, suppresses foam cell formation and protects against atherosclerosis. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 379, 806-11	3.4	64
134	Betacellulin induces angiogenesis through activation of mitogen-activated protein kinase and phosphatidylinositol 3Rkinase in endothelial cell. <i>FASEB Journal</i> , 2003 , 17, 318-20	0.9	63
133	Angiopoietin-2 exacerbates cardiac hypoxia and inflammation after myocardial infarction. <i>Journal of Clinical Investigation</i> , 2018 , 128, 5018-5033	15.9	62
132	Notch pathway targets proangiogenic regulator Sox17 to restrict angiogenesis. <i>Circulation Research</i> , 2014 , 115, 215-26	15.7	61
131	Intravital imaging of intestinal lacteals unveils lipid drainage through contractility. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4042-52	15.9	61
130	Intracavernous delivery of a designed angiopoietin-1 variant rescues erectile function by enhancing endothelial regeneration in the streptozotocin-induced diabetic mouse. <i>Diabetes</i> , 2011 , 60, 969-80	0.9	60
129	Betacellulin and amphiregulin induce upregulation of cyclin D1 and DNA synthesis activity through differential signaling pathways in vascular smooth muscle cells. <i>Circulation Research</i> , 2003 , 93, 302-10	15.7	59

128	Tie1 deletion inhibits tumor growth and improves angiopoietin antagonist therapy. <i>Journal of Clinical Investigation</i> , 2014 , 124, 824-34	15.9	58
127	A murine model of toluene diisocyanate-induced asthma can be treated with matrix metalloproteinase inhibitor. <i>Journal of Allergy and Clinical Immunology</i> , 2001 , 108, 1021-6	11.5	57
126	Neutrophils disturb pulmonary microcirculation in sepsis-induced acute lung injury. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	57
125	Nuclear factor kappaB dependency of platelet-activating factor-induced angiogenesis. <i>Cancer Research</i> , 2002 , 62, 1809-14	10.1	56
124	Impaired angiopoietin/Tie2 signaling compromises Schlemm's canal integrity and induces glaucoma. <i>Journal of Clinical Investigation</i> , 2017 , 127, 3877-3896	15.9	53
123	Angiopoietin-1 overexpression modulates vascular endothelium to facilitate tumor cell dissemination and metastasis establishment. <i>Cancer Research</i> , 2009 , 69, 4656-64	10.1	52
122	Protective effect of alpha-lipoic acid in lipopolysaccharide-induced endothelial fractalkine expression. <i>Circulation Research</i> , 2005 , 97, 880-90	15.7	52
121	Characterization and expression of a novel alternatively spliced human angiopoietin-2. <i>Journal of Biological Chemistry</i> , 2000 , 275, 18550-6	5.4	52
120	Gab family proteins are essential for postnatal maintenance of cardiac function via neuregulin-1/ErbB signaling. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1771-81	15.9	52
119	Angiopoietin-1 induces Kruppel-like factor 2 expression through a phosphoinositide 3-kinase/AKT-dependent activation of myocyte enhancer factor 2. <i>Journal of Biological Chemistry</i> , 2009 , 284, 5592-601	5.4	51
118	Gut microbiota regulates lacteal integrity by inducing VEGF-C in intestinal villus macrophages. <i>EMBO Reports</i> , 2019 , 20,	6.5	51
117	Molecular cloning and characterization of a novel angiopoietin family protein, angiopoietin-3. <i>FEBS Letters</i> , 1999 , 443, 353-6	3.8	50
116	Molecular determinants of the clearance function of type C receptors of natriuretic peptides. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9863-9	5.4	49
115	Perilipin+ embryonic preadipocytes actively proliferate along growing vasculatures for adipose expansion. <i>Development (Cambridge)</i> , 2015 , 142, 2623-32	6.6	48
114	Bioluminescence-activated deep-tissue photodynamic therapy of cancer. <i>Theranostics</i> , 2015 , 5, 805-17	12.1	48
113	Conditional ablation of LYVE-1+ cells unveils defensive roles of lymphatic vessels in intestine and lymph nodes. <i>Blood</i> , 2013 , 122, 2151-61	2.2	48
112	Vascular endothelial growth factor-angiopoietin chimera with improved properties for therapeutic angiogenesis. <i>Circulation</i> , 2013 , 127, 424-34	16.7	47
111	Cytoplasmic localization of cyclin D3 in seminiferous tubules during testicular development. <i>Experimental Cell Research</i> , 1997 , 234, 27-36	4.2	47

110	Dual modulation of the mitochondrial permeability transition pore and redox signaling synergistically promotes cardiomyocyte differentiation from pluripotent stem cells. <i>Journal of the American Heart Association</i> , 2014 , 3, e000693	6	45
109	Quantitative analysis of peripheral tissue perfusion using spatiotemporal molecular dynamics. <i>PLoS ONE</i> , 2009 , 4, e4275	3.7	45
108	Activation of PPAR gamma induces profound multilocularization of adipocytes in adult mouse white adipose tissues. <i>Experimental and Molecular Medicine</i> , 2009 , 41, 880-95	12.8	45
107	Lymphatic development in mouse small intestine. <i>Developmental Dynamics</i> , 2007 , 236, 2020-5	2.9	45
106	Differential and dramatic changes of cyclin-dependent kinase activities in cardiomyocytes during the neonatal period. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 1767-77	5.8	44
105	Angiopoietin-1 suppresses choroidal neovascularization and vascular leakage 2014 , 55, 2191-9		43
104	Biomedical significance of endothelial cell specific growth factor, angiopoietin. <i>Experimental and Molecular Medicine</i> , 2002 , 34, 1-11	12.8	43
103	Pulmonary pericytes regulate lung morphogenesis. <i>Nature Communications</i> , 2018 , 9, 2448	17.4	42
102	Deficiency of endothelium-specific transcription factor Sox17 induces intracranial aneurysm. <i>Circulation</i> , 2015 , 131, 995-1005	16.7	41
101	Inhibition of Ninjurin 1 restores erectile function through dual angiogenic and neurotrophic effects in the diabetic mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2731-40	11.5	41
100	Fibroblast activation protein alpha identifies mesenchymal stromal cells from human bone marrow. <i>British Journal of Haematology</i> , 2008 , 142, 827-30	4.5	41
99	Persistent and heterogenous expression of the cyclin-dependent kinase inhibitor, p27KIP1, in rat hearts during development. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 463-74	5.8	41
98	Reversing the intractable nature of pancreatic cancer by selectively targeting ALDH-high, therapy-resistant cancer cells. <i>PLoS ONE</i> , 2013 , 8, e78130	3.7	40
97	Angiopoietin receptor Tie2 is required for vein specification and maintenance via regulating COUP-TFII. <i>ELife</i> , 2016 , 5,	8.9	40
96	YAP and TAZ Negatively Regulate Prox1 During Developmental and Pathologic Lymphangiogenesis. <i>Circulation Research</i> , 2019 , 124, 225-242	15.7	40
95	SoxF Transcription Factors Are Positive Feedback Regulators of VEGF Signaling. <i>Circulation Research</i> , 2016 , 119, 839-52	15.7	39
94	Localization of Tie2 and phospholipase D in endothelial caveolae is involved in angiopoietin-1-induced MEK/ERK phosphorylation and migration in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 308, 101-5	3.4	36
93	Angiopoietins contribute to lung development by regulating pulmonary vascular network formation. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 218-23	3.4	35

92	Intracavernous delivery of synthetic angiopoietin-1 protein as a novel therapeutic strategy for erectile dysfunction in the type II diabetic db/db mouse. <i>Journal of Sexual Medicine</i> , 2010 , 7, 3635-46	1.1	35
91	Membrane proteomic analysis of human mesenchymal stromal cells during adipogenesis. <i>Proteomics</i> , 2007 , 7, 4181-91	4.8	35
90	Direct endothelial junction restoration results in significant tumor vascular normalization and metastasis inhibition in mice. <i>Oncotarget</i> , 2014 , 5, 2761-77	3.3	35
89	AMIGO2, a novel membrane anchor of PDK1, controls cell survival and angiogenesis via Akt activation. <i>Journal of Cell Biology</i> , 2015 , 211, 619-37	7.3	34
88	A MST1-FOXO1 cascade establishes endothelial tip cell polarity and facilitates sprouting angiogenesis. <i>Nature Communications</i> , 2019 , 10, 838	17.4	34
87	Reprogramming of mouse somatic cells into pluripotent stem-like cells using a combination of small molecules. <i>Biomaterials</i> , 2014 , 35, 7336-45	15.6	33
86	Angiopoietin-2 exocytosis is stimulated by sphingosine-1-phosphate in human blood and lymphatic endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 401-7	9.4	32
85	TRAIL negatively regulates VEGF-induced angiogenesis via caspase-8-mediated enzymatic and non-enzymatic functions. <i>Angiogenesis</i> , 2014 , 17, 179-94	10.6	30
84	Double anti-angiogenic and anti-inflammatory protein Valpha targeting VEGF-A and TNF-alpha in retinopathy and psoriasis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 14410-8	5.4	30
83	Angiopoietin-1 prevents hypertension and target organ damage through its interaction with endothelial Tie2 receptor. <i>Cardiovascular Research</i> , 2008 , 78, 572-80	9.9	28
82	Presence of immunoreactive atrial natriuretic peptide in follicular fluid, ovary and ovarian perfusates. <i>Life Sciences</i> , 1989 , 45, 1581-9	6.8	28
81	Intracavernous delivery of freshly isolated stromal vascular fraction rescues erectile function by enhancing endothelial regeneration in the streptozotocin-induced diabetic mouse. <i>Journal of Sexual Medicine</i> , 2012 , 9, 3051-65	1.1	27
80	Renal tubule regeneration after ischemic injury is coupled to the up-regulation and activation of cyclins and cyclin dependent kinases. <i>Kidney International</i> , 1997 , 52, 706-14	9.9	27
79	Angiopoietin-1 variant, COMP-Ang1 attenuates hydrogen peroxide-induced acute lung injury. <i>Experimental and Molecular Medicine</i> , 2008 , 40, 320-31	12.8	27
78	Genome-wide differential gene expression profiling of human bone marrow stromal cells. <i>Stem Cells</i> , 2007 , 25, 994-1002	5.8	27
77	Endothelial deletion of phospholipase D2 reduces hypoxic response and pathological angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1697-703	9.4	26
76	Sox7 promotes high-grade glioma by increasing VEGFR2-mediated vascular abnormality. <i>Journal of Experimental Medicine</i> , 2018 , 215, 963-983	16.6	25
75	Alpha-lipoic acid inhibits fractalkine expression and prevents neointimal hyperplasia after balloon injury in rat carotid artery. <i>Atherosclerosis</i> , 2006 , 189, 106-14	3.1	25

74	YAP1 and TAZ negatively control bone angiogenesis by limiting hypoxia-inducible factor signaling in endothelial cells. <i>ELife</i> , 2020 , 9,	8.9	24
73	Protective role of COMP-Ang1 in ischemic rat brain. <i>Journal of Neuroscience Research</i> , 2010 , 88, 1052-63	4.4	24
72	A Designed Angiopoietin-1 Variant, Dimeric CMP-Ang1 Activates Tie2 and Stimulates Angiogenesis and Vascular Stabilization in N-glycan Dependent Manner. <i>Scientific Reports</i> , 2015 , 5, 15291	4.9	23
71	A novel zinc finger protein that inhibits osteoclastogenesis and the function of tumor necrosis factor receptor-associated factor 6. <i>Journal of Biological Chemistry</i> , 2002 , 277, 8346-53	5.4	23
70	Sequential mechanism of atrial natriuretic peptide secretion in isolated perfused rabbit atria. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 172, 423-31	3.4	23
69	Angptl4 deficiency decreases serum triglyceride levels in low-density lipoprotein receptor knockout mice and streptozotocin-induced diabetic mice. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 409, 177-80	3.4	22
68	Optimal suppression of protein phosphatase 2A activity is critical for maintenance of human embryonic stem cell self-renewal. <i>Stem Cells</i> , 2010 , 28, 874-84	5.8	22
67	Tie2 activation promotes choriocapillary regeneration for alleviating neovascular age-related macular degeneration. <i>Science Advances</i> , 2019 , 5, eaau6732	14.3	21
66	Ligand oligomerization state controls Tie2 receptor trafficking and angiopoietin-2-specific responses. <i>Journal of Cell Science</i> , 2012 , 125, 2212-23	5.3	21
65	Carbohydrate-binding protein CLEC14A regulates VEGFR-2- and VEGFR-3-dependent signals during angiogenesis and lymphangiogenesis. <i>Journal of Clinical Investigation</i> , 2017 , 127, 457-471	15.9	21
64	Protective effect of adrenomedullin in mannitol-induced apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2002 , 7, 527-36	5.4	20
63	Intracavernous delivery of stromal vascular fraction restores erectile function through production of angiogenic factors in a mouse model of cavernous nerve injury. <i>Journal of Sexual Medicine</i> , 2014 , 11, 1962-73	1.1	19
62	Effects of culture temperature and pH on flag-tagged COMP angiopoietin-1 (FCA1) production from recombinant CHO cells: FCA1 aggregation. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 305-15	5.7	19
61	COMP-Angiopoietin-1 ameliorates surgery-induced ischemic necrosis of the femoral head in rats. <i>Bone</i> , 2009 , 44, 886-92	4.7	19
60	Novel glycosylated VEGF decoy receptor fusion protein, VEGF-Grab, efficiently suppresses tumor angiogenesis and progression. <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 470-9	6.1	18
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