Christopher D Kontos

List of Publications by Year
in descending order

81 papers	5,540 citations	66343 42 h-index	76900 74 g-index
85 all docs	85 docs citations	85 times ranked	7625 citing authors

#	Article	IF	Citations
1	Vascular Endothelial Growth Factor Receptor-1 Modulates Vascular Endothelial Growth Factor-Mediated Angiogenesis via Nitric Oxide. American Journal of Pathology, 2001, 159, 993-1008.	3.8	265
2	A crucial role for GRK2 in regulation of endothelial cell nitric oxide synthase function in portal hypertension. Nature Medicine, 2005, 11, 952-958.	30.7	234
3	IQGAP1, a Novel Vascular Endothelial Growth Factor Receptor Binding Protein, Is Involved in Reactive Oxygen Speciesâ€"Dependent Endothelial Migration and Proliferation. Circulation Research, 2004, 95, 276-283.	4.5	223
4	Cadmium induction of reactive oxygen species activates the mTOR pathway, leading to neuronal cell death. Free Radical Biology and Medicine, 2011, 50, 624-632.	2.9	214
5	Tyrosine 1101 of Tie2 Is the Major Site of Association of p85 and Is Required for Activation of Phosphatidylinositol 3-Kinase and Akt. Molecular and Cellular Biology, 1998, 18, 4131-4140.	2.3	202
6	Endogenous S -nitrosothiols protect against myocardial injury. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6297-6302.	7.1	201
7	Impaired Angiogenesis After Hindlimb Ischemia in Type 2 Diabetes Mellitus. Circulation Research, 2007, 101, 948-956.	4.5	192
8	Negative Regulation of Myofibroblast Differentiation by PTEN (Phosphatase and Tensin Homolog) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 112-121.	5.6	186
9	Targeting VE-PTP activates TIE2 and stabilizes the ocular vasculature. Journal of Clinical Investigation, 2014, 124, 4564-4576.	8.2	174
10	PTEN Modulates Vascular Endothelial Growth Factor-Mediated Signaling and Angiogenic Effects. Journal of Biological Chemistry, 2002, 277, 10760-10766.	3.4	168
11	A systems biology perspective on sVEGFR1: its biological function, pathogenic role and therapeutic use. Journal of Cellular and Molecular Medicine, 2010, 14, 528-552.	3.6	161
12	Inhibition of rat corneal angiogenesis by a nuclease-resistant RNA aptamer specific for angiopoietin-2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5028-5033.	7.1	150
13	Functional Significance of Tie2 Signaling in the Adult Vasculature. Endocrine Reviews, 2004, 59, 51-71.	6.7	150
14	PTEN as an effector in the signaling of antimigratory G protein-coupled receptor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4312-4317.	7.1	149
15	VEGF Induces Tie2 Shedding via a Phosphoinositide 3-Kinase/Aktâ€"Dependent Pathway to Modulate Tie2 Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 2619-2626.	2.4	147
16	Endothelin-1 Activates Endothelial Cell Nitric-oxide Synthase via Heterotrimeric G-protein Î²Î³ Subunit Signaling to Protein Kinase B/Akt. Journal of Biological Chemistry, 2003, 278, 49929-49935.	3.4	132
17	Allelic and locus heterogeneity in inherited venous malformations. Human Molecular Genetics, 1999, 8, 1279-1289.	2.9	121
18	Activation of Vascular Endothelial Growth Factor Receptor-1 Sustains Angiogenesis and Bcl-2 Expression Via the Phosphatidylinositol 3-Kinase Pathway in Endothelial Cells. Diabetes, 2003, 52, 2959-2968.	0.6	115

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19	In Mice With Type 2 Diabetes, a Vascular Endothelial Growth Factor (VEGF)-Activating Transcription Factor Modulates VEGF Signaling and Induces Therapeutic Angiogenesis After Hindlimb Ischemia. Diabetes, 2007, 56, 656-665.	0.6	109
20	Inhibition of Vascular Smooth Muscle Cell Proliferation, Migration, and Survival by the Tumor Suppressor Protein PTEN. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 745-751.	2.4	98
21	Plasma Levels of Soluble Tie2 and Vascular Endothelial Growth Factor Distinguish Critical Limb Ischemia From Intermittent Claudication in Patients With Peripheral Arterial Disease. Journal of the American College of Cardiology, 2008, 52, 387-393.	2.8	96
22	The Endothelial Receptor Tyrosine Kinase Tie1 Activates Phosphatidylinositol 3-Kinase and Akt To Inhibit Apoptosis. Molecular and Cellular Biology, 2002, 22, 1704-1713.	2.3	91
23	Systemic Overexpression of Angiopoietin-2 Promotes Tumor Microvessel Regression and Inhibits Angiogenesis and Tumor Growth. Cancer Research, 2007, 67, 3835-3844.	0.9	88
24	HCPTPA, a Protein Tyrosine Phosphatase That Regulates Vascular Endothelial Growth Factor Receptor-mediated Signal Transduction and Biological Activity. Journal of Biological Chemistry, 1999, 274, 38183-38188.	3.4	79
25	Inactivation of the tumour suppressor, PTEN, in smooth muscle promotes a pro-inflammatory phenotype and enhances neointima formation. Cardiovascular Research, 2010, 86, 274-282.	3.8	78
26	p53 Functions in Endothelial Cells to Prevent Radiation-Induced Myocardial Injury in Mice. Science Signaling, 2012, 5, ra52.	3.6	74
27	Engineered Zinc Fingerâ€“Activating Vascular Endothelial Growth Factor Transcription Factor Plasmid DNA Induces Therapeutic Angiogenesis in Rabbits With Hindlimb Ischemia. Circulation, 2004, 110, 2467-2475.	1.6	71
28	RNA Aptamer-targeted Inhibition of NF-Î²B Suppresses Non-small Cell Lung Cancer Resistance to Doxorubicin. Molecular Therapy, 2008, 16, 66-73.	8.2	70
29	Skeletal Muscleâ€“Specific Genetic Determinants Contribute to the Differential Strain-Dependent Effects of Hindlimb Ischemia in Mice. American Journal of Pathology, 2012, 180, 2156-2169.	3.8	66
30	In vivo tumor targeting by a NGR-decorated micelle of a recombinant diblock copolypeptide. Journal of Controlled Release, 2011, 155, 144-151.	9.9	63
31	VEGF and soluble VEGF receptor-1 (sFlt-1) distributions in peripheral arterial disease: an in silico model. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H2174-H2191.	3.2	59
32	Association of Variants in BAG3 With Cardiomyopathy Outcomes in African American Individuals. JAMA Cardiology, 2018, 3, 929.	6.1	57
33	Targeting the Tie2/Tek Receptor in Astrocytomas. American Journal of Pathology, 2004, 164, 467-476.	3.8	55
34	Acute local subcutaneous VEGF165 injection for augmentation of skin flap viability: efficacy and mechanism. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R1219-R1229.	1.8	51
35	BAG3 (Bcl-2â€“Associated Athanogene-3) Coding Variant in Mice Determines Susceptibility to Ischemic Limb Muscle Myopathy by Directing Autophagy. Circulation, 2017, 136, 281-296.	1.6	51
36	Deletion of the Carboxyl Terminus of Tie2 Enhances Kinase Activity, Signaling, and Function. Journal of Biological Chemistry, 2002, 277, 31768-31773.	3.4	50

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37	Inhibition of In Vivo Tumor Angiogenesis and Growth Via Systemic Delivery of an Angiopoietin 2-Specific RNA Aptamer. Journal of Surgical Research, 2008, 146, 16-23.	1.6	50
38	H1 RNA polymerase III promoter-driven expression of an RNA aptamer leads to high-level inhibition of intracellular protein activity. Nucleic Acids Research, 2006, 34, 3577-3584.	14.5	49
39	Adenovirus-Mediated Intraarterial Delivery of PTEN Inhibits Neointimal Hyperplasia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 354-358.	2.4	47
40	Up-regulating Sphingosine 1-Phosphate Receptor-2 Signaling Impairs Chemotactic, Wound-healing, and Morphogenetic Responses in Senescent Endothelial Cells. Journal of Biological Chemistry, 2008, 283, 30363-30375.	3.4	46
41	Infection-Induced Vascular Permeability Aids Mycobacterial Growth. Journal of Infectious Diseases, 2017, 215, jiw355.	4.0	46
42	Angiopoietin-Tie Signaling Pathway in Endothelial Cells: A Computational Model. IScience, 2019, 20, 497-511.	4.1	46
43	Angiopoietin-2 Confers Atheroprotection in apoE ‹sup›â˜'/â˜'‹/sup› Mice by Inhibiting LDL Oxidation via Nitric Oxide. Circulation Research, 2009, 104, 1333-1336.	4.5	43
44	Loss of Phosphatase and Tensin Homologue Increases Transforming Growth Factor Î²â€“Mediated Invasion with Enhanced SMAD3 Transcriptional Activity. Cancer Research, 2005, 65, 11276-11281.	0.9	42
45	Phosphatase and tensin homolog (PTEN) regulates hepatic lipogenesis, microsomal triglyceride transfer protein, and the secretion of apolipoprotein B-containing lipoproteins. Hepatology, 2008, 48, 1799-1809.	7.3	42
46	Angiopoietin-1 enhances skeletal muscle regeneration in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R576-R589.	1.8	40
47	Subacute limb ischemia induces skeletal muscle injury in genetically susceptible mice independent of vascular density. Journal of Vascular Surgery, 2016, 64, 1101-1111.e2.	1.1	40
48	Responses of vascular endothelial cells to angiogenic signaling are important for tumor cell survival. FASEB Journal, 2004, 18, 326-328.	0.5	39
49	An engineered vascular endothelial growth factor-activating transcription factor induces therapeutic angiogenesis in ApoE knockout mice with hindlimb ischemia. Journal of Vascular Surgery, 2006, 44, 166-175.	1.1	39
50	Haploâ€insufficiency of Bcl2â€associated athanogene 3 in mice results in progressive left ventricular dysfunction, Î²â€adrenergic insensitivity, and increased apoptosis. Journal of Cellular Physiology, 2018, 233, 6319-6326.	4.1	32
51	Tie1: an orphan receptor provides context for angiopoietin-2/Tie2 signaling. Journal of Clinical Investigation, 2016, 126, 3188-3191.	8.2	30
52	Cholesterol Feeding Reduces Vascular Endothelial Growth Factor Signaling in Rabbit Corporal Tissues. Journal of Sexual Medicine, 2005, 2, 634-640.	0.6	28
53	Modulation of phosphatidylinositol 3-kinase signaling reduces intimal hyperplasia in aortocoronary saphenous vein grafts. Journal of Thoracic and Cardiovascular Surgery, 2005, 129, 1405-1413.	0.8	28
54	Efficacy and mechanism of adenovirus-mediated VEGF-165 gene therapy for augmentation of skin flap viability. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H127-H137.	3.2	28

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55	Muscle cell derived angiopoietin-1 contributes to both myogenesis and angiogenesis in the ischemic environment. Frontiers in Physiology, 2015, 6, 161.	2.8	28
56	Dysregulation of mitochondrial bioenergetics and quality control by HIVâ€1 Tat in cardiomyocytes. Journal of Cellular Physiology, 2018, 233, 748-758.	4.1	22
57	APOE4 -VLDL Inhibits the HDL-Activated Phosphatidylinositol 3-Kinase/Akt Pathway via the Phosphoinositol Phosphatase SHIP2. Circulation Research, 2006, 99, 829-836.	4.5	21
58	Gene therapy for the prevention of vein graft disease. Translational Research, 2013, 161, 321-338.	5.0	21
59	Angiogenesis. Current Atherosclerosis Reports, 1999, 1, 165-171.	4.8	20
60	Phosphatase and Tensin Homologue on Chromosome 10 (PTEN) Directs Prostaglandin E2-mediated Fibroblast Responses via Regulation of E Prostanoid 2 Receptor Expression. Journal of Biological Chemistry, 2009, 284, 32264-32271.	3.4	20
61	Systemic soluble Tie2 expression inhibits and regresses corneal neovascularization. Biochemical and Biophysical Research Communications, 2005, 332, 194-199.	2.1	19
62	Methods for Acute and Subacute Murine Hindlimb Ischemia. Journal of Visualized Experiments, 2016, , .	0.3	19
63	Addressing the physician-scientist pipeline: strategies to integrate research into clinical training programs. Journal of Clinical Investigation, 2020, 130, 1058-1061.	8.2	19
64	A nuclease-resistant RNA aptamer specifically inhibits angiopoietin-1-mediated Tie2 activation and function. Angiogenesis, 2008, 11, 395-401.	7.2	18
65	Computational kinetic model of VEGF trapping by soluble VEGF receptor-1: effects of transendothelial and lymphatic macromolecular transport. Physiological Genomics, 2009, 38, 29-41.	2.3	18
66	Angiopoietin-1 promotes atherosclerosis by increasing the proportion of circulating Gr1⁺monocytes. Cardiovascular Research, 2017, 113, 81-89.	3.8	17
67	A Comparison of Antiangiogenic Therapies for the Prevention of Liver Metastases. Journal of Surgical Research, 2006, 131, 97-104.	1.6	14
68	Mitochondrial dysfunction in human immunodeficiency virusâ€1 transgenic mouse cardiac myocytes. Journal of Cellular Physiology, 2019, 234, 4432-4444.	4.1	14
69	More than skin deep: connecting melanocyte pigmentation and angiogenic diseases. Journal of Clinical Investigation, 2014, 124, 76-79.	8.2	13
70	A VEGF Trap Inhibits the Beneficial Effect of bFGF on Vasoreactivity in Corporal Tissues of Hypercholesterolemic Rabbits. Journal of Sexual Medicine, 2008, 5, 2069-2078.	0.6	9
71	Precision Medicine for Heart Failure. Circulation: Heart Failure, 2017, 10, .	3.9	9
72	Phosphorylation of Threonine 794 on Tie1 by Rac1/PAK1 Reveals a Novel Angiogenesis Regulatory Pathway. PLoS ONE, 2015, 10, e0139614.	2.5	8

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73	A systems biology model of junctional localization and downstream signaling of the Angâ€“Tie signaling pathway. Npj Systems Biology and Applications, 2021, 7, 34.	3.0	7
74	Engineered transcription factors for therapeutic angiogenesis. Current Opinion in Molecular Therapeutics, 2007, 9, 145-52.	2.8	6
75	Pearls of wisdom for aspiring physician-scientist residency applicants and program directors. JCI Insight, 2022, 7, .	5.0	5
76	High Cholesterol Feeding in C57/Blc6 Mice Alters Expression within The VEGF Receptor-Ligand Family in Corporal Tissue. Journal of Sexual Medicine, 2008, 5, 1137-1148.	0.6	4
77	Inhibiting the Inhibitor: Targeting Vascular Endothelial Protein Tyrosine Phosphatase to Promote Tumor Vascular Maturation. Journal of the National Cancer Institute, 2013, 105, 1163-1165.	6.3	3
78	Abstract 14: Caskin2 is a Novel Regulator of Endothelial Cell Quiescence. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, .	2.4	1
79	Gene Therapy for the Prevention of Vein Graft Disease. , 2015, , 227-246.		0
80	Computational Systems Biology Modeling of the Angiopoietinâ€Tie Signaling Pathway and its Crosstalk with Î±5Î²1 Integrin in Endothelial Cells. FASEB Journal, 2021, 35, .	0.5	0
81	Endothelial Regulation of Microvascular Growth and Stability by Angâ€Tie and VEGF Signaling Pathways: A Mechanistic Computational Systems Biology Model. FASEB Journal, 2022, 36, .	0.5	0