

Payaningal R Somanath

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

2,844
citations

29
h-index

51
g-index

92
ext. papers

3,288
ext. citations

5.9
avg, IF

5.47
L-index

#	Paper	IF	Citations
83	Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo. <i>Nature Medicine</i> , 2005 , 11, 1188-96	50.5	338
82	Akt1 in endothelial cell and angiogenesis. <i>Cell Cycle</i> , 2006 , 5, 512-8	4.7	203
81	Cooperation between integrin alphavbeta3 and VEGFR2 in angiogenesis. <i>Angiogenesis</i> , 2009 , 12, 177-85	10.6	185
80	Antiangiogenic therapy for cancer: an update. <i>Pharmacotherapy</i> , 2012 , 32, 1095-111	5.8	128
79	Anticancer efficacy of simvastatin on prostate cancer cells and tumor xenografts is associated with inhibition of Akt and reduced prostate-specific antigen expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 336, 496-505	4.7	97
78	Integrin and growth factor receptor alliance in angiogenesis. <i>Cell Biochemistry and Biophysics</i> , 2009 , 53, 53-64	3.2	90
77	Akt1 signaling regulates integrin activation, matrix recognition, and fibronectin assembly. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22964-76	5.4	87
76	Novel roles of Src in cancer cell epithelial-to-mesenchymal transition, vascular permeability, microinvasion and metastasis. <i>Life Sciences</i> , 2016 , 157, 52-61	6.8	84
75	PAK1 as a therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 703-25	6.4	83
74	Enhanced cerebral but not peripheral angiogenesis in the Goto-Kakizaki model of type 2 diabetes involves VEGF and peroxynitrite signaling. <i>Diabetes</i> , 2012 , 61, 1533-42	0.9	80
73	P21 activated kinase-1 (Pak1) promotes prostate tumor growth and microinvasion via inhibition of transforming growth factor β expression and enhanced matrix metalloproteinase 9 secretion. <i>Journal of Biological Chemistry</i> , 2013 , 288, 3025-35	5.4	65
72	Akt1 is necessary for the vascular maturation and angiogenesis during cutaneous wound healing. <i>Angiogenesis</i> , 2008 , 11, 277-88	10.6	53
71	Angiotensin receptor blockers and angiogenesis: clinical and experimental evidence. <i>Clinical Science</i> , 2011 , 120, 307-19	6.5	52
70	Simultaneous modulation of the intrinsic and extrinsic pathways by simvastatin in mediating prostate cancer cell apoptosis. <i>BMC Cancer</i> , 2012 , 12, 409	4.8	50
69	TGF β induces apoptosis in invasive prostate cancer and bladder cancer cells via Akt-independent, p38 MAPK and JNK/SAPK-mediated activation of caspases. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 427, 165-70	3.4	46
68	Diverse effects of statins on angiogenesis: new therapeutic avenues. <i>Pharmacotherapy</i> , 2010 , 30, 169-76	5.8	45
67	Targeting Src-mediated Tyr216 phosphorylation and activation of GSK-3 in prostate cancer cells inhibit prostate cancer progression in vitro and in vivo. <i>Oncotarget</i> , 2014 , 5, 775-87	3.3	44

66	Deficiency in core circadian protein Bmal1 is associated with a prothrombotic and vascular phenotype. <i>Journal of Cellular Physiology</i> , 2011 , 226, 132-40	7	43
65	Akt1 mediates smooth muscle actin expression and myofibroblast differentiation via myocardin and serum response factor. <i>Journal of Biological Chemistry</i> , 2013 , 288, 33483-93	5.4	41
64	TGF β and bleomycin-induced extracellular matrix synthesis is mediated through Akt and mammalian target of rapamycin (mTOR). <i>Journal of Cellular Physiology</i> , 2011 , 226, 3004-13	7	41
63	14-3-3beta-Rac1-p21 activated kinase signaling regulates Akt1-mediated cytoskeletal organization, lamellipodia formation and fibronectin matrix assembly. <i>Journal of Cellular Physiology</i> , 2009 , 218, 394-404	7	41
62	The angiogenic response is dictated by beta3 integrin on bone marrow-derived cells. <i>Journal of Cell Biology</i> , 2008 , 183, 1145-57	7.3	41
61	P21 activated kinase-1 mediates transforming growth factor β -induced prostate cancer cell epithelial to mesenchymal transition. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1229-39	4.9	38
60	Vascular protection by angiotensin receptor antagonism involves differential VEGF expression in both hemispheres after experimental stroke. <i>PLoS ONE</i> , 2011 , 6, e24551	3.7	36
59	Binding and inactivation of the germ cell-specific protein phosphatase PP1gamma2 by sds22 during epididymal sperm maturation. <i>Biology of Reproduction</i> , 2003 , 69, 1572-9	3.9	35
58	Changes in intracellular distribution and activity of protein phosphatase PP1gamma2 and its regulating proteins in spermatozoa lacking AKAP4. <i>Biology of Reproduction</i> , 2005 , 72, 384-92	3.9	35
57	Rac1 activation driven by 14-3-3 dimerization promotes prostate cancer cell-matrix interactions, motility and transendothelial migration. <i>PLoS ONE</i> , 2012 , 7, e40594	3.7	32
56	Discrete functions of GSK3 β and GSK3 α isoforms in prostate tumor growth and micrometastasis. <i>Oncotarget</i> , 2015 , 6, 5947-62	3.3	32
55	Isoform-specific effects of transforming growth factor β on endothelial-to-mesenchymal transition. <i>Journal of Cellular Physiology</i> , 2018 , 233, 8418-8428	7	31
54	The Akt inhibitor, triciribine, ameliorates chronic hypoxia-induced vascular pruning and TGF β -induced pulmonary fibrosis. <i>British Journal of Pharmacology</i> , 2015 , 172, 4173-88	8.6	29
53	Akt1 promotes stimuli-induced endothelial-barrier protection through FoxO-mediated tight-junction protein turnover. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 3917-33	10.3	29
52	Lack of adequate pneumococcal vaccination response in chronic lymphocytic leukaemia patients receiving ibrutinib. <i>British Journal of Haematology</i> , 2018 , 182, 712-714	4.5	28
51	Endothelial Akt1 loss promotes prostate cancer metastasis via E-catenin-regulated tight-junction protein turnover. <i>British Journal of Cancer</i> , 2018 , 118, 1464-1475	8.7	28
50	Regulation of blood-retinal barrier cell-junctions in diabetic retinopathy. <i>Pharmacological Research</i> , 2020 , 161, 105115	10.2	28
49	PI3 kinase integrates Akt and MAP kinase signaling pathways in the regulation of prostate cancer. <i>International Journal of Oncology</i> , 2011 , 38, 267-77	4.4	28

48	The unconventional role of Akt1 in the advanced cancers and in diabetes-promoted carcinogenesis. <i>Pharmacological Research</i> , 2019 , 145, 104270	10.2	27
47	Suppression of Akt1- β catenin pathway in advanced prostate cancer promotes TGF β -mediated epithelial to mesenchymal transition and metastasis. <i>Cancer Letters</i> , 2017 , 402, 177-189	9.9	26
46	Interference with akt signaling protects against myocardial infarction and death by limiting the consequences of oxidative stress. <i>Science Signaling</i> , 2013 , 6, ra67	8.8	26
45	Methods for isolation of endothelial and smooth muscle cells and in vitro proliferation assays. <i>Methods in Molecular Medicine</i> , 2006 , 129, 197-208		24
44	Modulation of long-term endothelial-barrier integrity is conditional to the cross-talk between Akt and Src signaling. <i>Journal of Cellular Physiology</i> , 2017 , 232, 2599-2609	7	22
43	Candesartan induces a prolonged proangiogenic effect and augments endothelium-mediated neuroprotection after oxygen and glucose deprivation: role of vascular endothelial growth factors A and B. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014 , 349, 444-57	4.7	22
42	Suppression of interactions between prostate tumor cell-surface integrin and endothelial ICAM-1 by simvastatin inhibits micrometastasis. <i>Journal of Cellular Physiology</i> , 2013 , 228, 2139-48	7	22
41	Clinically relevant doses of candesartan inhibit growth of prostate tumor xenografts in vivo through modulation of tumor angiogenesis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014 , 350, 635-45	4.7	22
40	Dasatinib inhibits TGF β -induced myofibroblast differentiation through Src-SRF Pathway. <i>European Journal of Pharmacology</i> , 2015 , 769, 134-42	5.3	21
39	Endothelial stromelysin1 regulation by the forkhead box-O transcription factors is crucial in the exudative phase of acute lung injury. <i>Pharmacological Research</i> , 2019 , 141, 249-263	10.2	21
38	Liposome-mediated delivery of the p21 activated kinase-1 (PAK-1) inhibitor IPA-3 limits prostate tumor growth in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1231-1239	6	20
37	Pharmacological inhibition of β catenin prevents EndMT in vitro and vascular remodeling in vivo resulting from endothelial Akt1 suppression. <i>Biochemical Pharmacology</i> , 2019 , 164, 205-215	6	17
36	Identification of chloride intracellular channel proteins in spermatozoa. <i>FEBS Letters</i> , 2004 , 566, 136-40	3.8	17
35	Pharmacological Inhibition of Spermine Oxidase Reduces Neurodegeneration and Improves Retinal Function in Diabetic Mice. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	16
34	Differential effects of Akt1 signaling on short- versus long-term consequences of myocardial infarction and reperfusion injury. <i>Laboratory Investigation</i> , 2014 , 94, 1083-91	5.9	16
33	TNF α induces inflammatory stress response in microvascular endothelial cells via Akt- and P38 MAP kinase-mediated thrombospondin-1 expression. <i>Molecular and Cellular Biochemistry</i> , 2015 , 406, 227-36	4.2	14
32	Cell-cell junctions: structure and regulation in physiology and pathology. <i>Tissue Barriers</i> , 2021 , 9, 184821	4.3	14
31	Is targeting Akt a viable option to treat advanced-stage COVID-19 patients?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 319, L45-L47	5.8	13

30	Club Cell Secreted Protein CC16: Potential Applications in Prognosis and Therapy for Pulmonary Diseases. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	13
29	Delayed Akt suppression in the lipopolysaccharide-induced acute lung injury promotes resolution that is associated with enhanced effector regulatory T cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L750-L761	5.8	12
28	cGMP Signaling Increases Antioxidant Gene Expression by Activating Forkhead Box O3A in the Colon Epithelium. <i>American Journal of Pathology</i> , 2017 , 187, 377-389	5.8	10
27	Genetic deletion and pharmacological inhibition of Akt1 isoform attenuates bladder cancer cell proliferation, motility and invasion. <i>European Journal of Pharmacology</i> , 2015 , 764, 208-214	5.3	8
26	Nodal pathway activation due to Akt1 suppression is a molecular switch for prostate cancer cell epithelial-to-mesenchymal transition and metastasis. <i>Biochemical Pharmacology</i> , 2019 , 168, 1-13	6	7
25	p70 S6-kinase mediates the cooperation between Akt1 and Mek1 pathways in fibroblast-mediated extracellular matrix remodeling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1624-1635	4.9	7
24	PAK1 inhibitor IPA-3 mitigates metastatic prostate cancer-induced bone remodeling. <i>Biochemical Pharmacology</i> , 2020 , 177, 113943	6	7
23	Effect of P21-activated kinase 1 (PAK-1) inhibition on cancer cell growth, migration, and invasion. <i>Pharmacology Research and Perspectives</i> , 2019 , 7, e00518	3.1	7
22	Patients with acute respiratory distress syndrome exhibit increased stromelysin1 activity in the blood samples. <i>Cytokine</i> , 2020 , 131, 155086	4	6
21	Is amiloride a promising cardiovascular medication to persist in the COVID-19 crisis?. <i>Drug Discoveries and Therapeutics</i> , 2020 , 14, 256-258	5	6
20	Endothelial Permeability Assays In Vitro. <i>Methods in Molecular Biology</i> , 2021 , 2367, 177-191	1.4	6
19	Targeting Akt-associated microRNAs for cancer therapeutics. <i>Biochemical Pharmacology</i> , 2021 , 189, 114384	3.8	6
18	The Roles of CCN1/CYR61 in Pulmonary Diseases. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
17	Liposomes Targeting P21 Activated Kinase-1 (PAK-1) and Selective for Secretory Phospholipase A (sPLA) Decrease Cell Viability and Induce Apoptosis in Metastatic Triple-Negative Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
16	Genome atlas analysis based profiling of Akt pathway genes in the early and advanced human prostate cancer. <i>Oncoscience</i> , 2019 , 6, 317-336	0.8	5
15	Modulation in the microRNA repertoire is responsible for the stage-specific effects of Akt suppression on murine neuroendocrine prostate cancer. <i>Heliyon</i> , 2018 , 4, e00796	3.6	5
14	Vascular Permeability Assays In Vivo. <i>Methods in Molecular Biology</i> , 2021 , 2367, 165-175	1.4	4
13	Distinct effects of pharmacological inhibition of stromelysin1 on endothelial-to-mesenchymal transition and myofibroblast differentiation. <i>Journal of Cellular Physiology</i> , 2021 , 236, 5147-5161	7	3

12	Akt-independent effects of triciribine on ACE2 expression in human lung epithelial cells: Potential benefits in restricting SARS-CoV2 infection. <i>Journal of Cellular Physiology</i> , 2021 , 236, 6597-6606	7	3
11	Sterically stabilized liposomes targeting P21 (RAC1) activated kinase-1 and secreted phospholipase A suppress prostate cancer growth and metastasis. <i>Oncology Letters</i> , 2020 , 20, 179	2.6	2
10	ALK-1 to ALK-5 ratio dictated by the Akt1- β -catenin pathway regulates TGF β -induced endothelial-to-mesenchymal transition. <i>Gene</i> , 2021 , 768, 145293	3.8	2
9	Pharmacological Inhibition of MMP3 as a Potential Therapeutic Option for COVID-19 Associated Acute Respiratory Distress Syndrome. <i>Infectious Disorders - Drug Targets</i> , 2021 , 21, e170721187996	1.1	2
8	Differential regulation of TGF β -type-I receptor expressions in TGF β -induced myofibroblast differentiation. <i>Canadian Journal of Physiology and Pharmacology</i> , 2020 , 98, 841-848	2.4	1
7	Inhibition of glypican-1 expression induces an activated fibroblast phenotype in a human bone marrow-derived stromal cell-line. <i>Scientific Reports</i> , 2021 , 11, 9262	4.9	1
6	Cisatracurium attenuates LPS-induced modulation of MMP3 and junctional protein expression in human microvascular endothelial cells. <i>BioScience Trends</i> , 2021 , 15, 50-54	9.9	1
5	Bioinformatics analyses reveal cell-barrier junction modulations in lung epithelial cells on SARS-CoV-2 infection. <i>Tissue Barriers</i> , 2021 , 2000300	4.3	0
4	Claudin-17 Deficiency in Mice Results in Kidney Injury Due to Electrolyte Imbalance and Oxidative Stress. <i>Cells</i> , 2022 , 11, 1782	7.9	0
3	INTERFERENCE WITH AKT SIGNALLING IN DYSLIPIDEMIA DIMINISHES MYOCARDIAL INFARCTION AND PROMOTES SURVIVAL BY INHIBITING OXIDATIVE STRESS.. <i>Heart</i> , 2012 , 98, E7.2-E8	5.1	
2	INTERFERENCE WITH AKT SIGNALING IN DYSLIPIDEMIA DIMINISHES MYOCARDIAL INFARCTION AND PROMOTES SURVIVAL BY INHIBITING OXIDATIVE STRESS. <i>Heart</i> , 2012 , 98, E62.2-E63	5.1	
1	Akt-1 Regulates Angiogenesis in Skin.. <i>Blood</i> , 2004 , 104, 845-845	2.2	