Ramani Ramchandran

List of Publications by Year
in descending order

100	2,288	218677	233421
papers	citations	26 h-index	45 g-index

107	107	107	3749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	roundabout4 is essential for angiogenesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6373-6378.	7.1	208
2	A noncoding antisense RNA in tie-1 locus regulates tie-1 function in vivo. Blood, 2010, 115, 133-139.	1.4	145
3	The lncRNA PVT1 Contributes to the Cervical Cancer Phenotype and Associates with Poor Patient Prognosis. PLoS ONE, 2016, 11, e0156274.	2.5	132
4	Cystathionine Î²â€synthase regulates endothelial function via proteinSâ€sulfhydration. FASEB Journal, 2016, 30, 441-456.	0.5	102
5	Rap1 promotes VEGFR2 activation and angiogenesis by a mechanism involving integrin Î±vÎ²3. Blood, 2011, 118, 2015-2026.	1.4	95
6	Dusp-5 and Snrk-1 coordinately function during vascular development and disease. Blood, 2009, 113, 1184-1191.	1.4	91
7	Astrocytes Directly Influence Tumor Cell Invasion and Metastasis In Vivo. PLoS ONE, 2013, 8, e80933.	2.5	76
8	Reactive Oxygen Species Driven Angiogenesis by Inorganic Nanorods. Nano Letters, 2011, 11, 4932-4938.	9.1	74
9	Robo4 Signaling in Endothelial Cells Implies Attraction Guidance Mechanisms. Journal of Biological Chemistry, 2006, 281, 11347-11356.	3.4	73
10	SIGIRR Genetic Variants in Premature Infants With Necrotizing Enterocolitis. Pediatrics, 2015, 135, e1530-e1534.	2.1	71
11	Lipopolysaccharide (LPS)-mediated Angiopoietin-2-dependent Autocrine Angiogenesis Is Regulated by NADPH Oxidase 2 (Nox2) in Human Pulmonary Microvascular Endothelial Cells. Journal of Biological Chemistry, 2015, 290, 5449-5461.	3.4	57
12	miRNA551b-3p Activates an Oncostatin Signaling Module for the Progression of Triple-Negative Breast Cancer. Cell Reports, 2019, 29, 4389-4406.e10.	6.4	55
13	Natural Antisense Transcript: A Concomitant Engagement with Protein-Coding Transcript. Oncotarget, 2010, 1, 447-452.	1.8	55
14	SIRT2 regulates ciliogenesis and contributes to abnormal centrosome amplification caused by loss of polycystin-1. Human Molecular Genetics, 2014, 23, 1644-1655.	2.9	47
15	Characterization of Endothelial Cilia Distribution During Cerebral-Vascular Development in Zebrafish (Danio rerio). Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2806-2818.	2.4	47
16	Interaction of tumor cells and astrocytes promotes breast cancer brain metastases through TGF-Î²2/ANGPTL4 axes. Npj Precision Oncology, 2019, 3, 24.	5.4	47
17	Nogo-B receptor is essential for angiogenesis in zebrafish via Akt pathway. Blood, 2010, 116, 5423-5433.	1.4	45
18	miRNA-Mediated RNA Activation in Mammalian Cells. Advances in Experimental Medicine and Biology, 2017, 983, 81-89.	1.6	43

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19	Mmp17b Is Essential for Proper Neural Crest Cell Migration In Vivo. PLoS ONE, 2013, 8, e76484.	2.5	39
20	Silencing of directional migration in roundabout4 knockdown endothelial cells. BMC Cell Biology, 2008, 9, 61.	3.0	38
21	Endothelial cellâ€“specific chemotaxis receptor (ecscr) promotes angioblast migration during vasculogenesis and enhances VEGF receptor sensitivity. Blood, 2010, 115, 4614-4622.	1.4	37
22	Thiolutin inhibits endothelial cell adhesion by perturbing Hsp27 interactions with components of the actin and intermediate filament cytoskeleton. Cell Stress and Chaperones, 2010, 15, 165-181.	2.9	35
23	RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. Journal of Cell Science, 2015, 128, 3556-68.	2.0	35
24	RNA-binding protein FXR1 drives cMYC translation by recruiting eIF4F complex to the translation start site. Cell Reports, 2021, 37, 109934.	6.4	34
25	Snrk-1 is involved in multiple steps of angioblast development and acts via notch signaling pathway in artery-vein specification in vertebrates. Blood, 2009, 113, 1192-1199.	1.4	31
26	SNRK (Sucrose Nonfermenting 1-Related Kinase) Promotes Angiogenesis In Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 373-385.	2.4	31
27	Organization for rare diseases India (ORDI)Ââ€“Âaddressing the challenges and opportunities for the Indian rare diseases' community. Genetical Research, 2014, 96, e009.	0.9	30
28	Peritoneal Spread of Ovarian Cancer Harbors Therapeutic Vulnerabilities Regulated by FOXM1 and EGFR/ERBB2 Signaling. Cancer Research, 2020, 80, 5554-5568.	0.9	29
29	ERBB3-induced furin promotes the progression and metastasis of ovarian cancer via the IGF1R/STAT3 signaling axis. Oncogene, 2020, 39, 2921-2933.	5.9	28
30	Cystathione Î²-synthase regulates HIF-1Î± stability through persulfidation of PHD2. Science Advances, 2020, 6, .	10.3	24
31	E-cadherin re-expression showsin vivoevidence for mesenchymal to epithelial transition in clonal metastatic breast tumor cells. Oncotarget, 2016, 7, 43363-43375.	1.8	22
32	Sucrose non-fermenting related kinase enzyme is essential for cardiac metabolism. Biology Open, 2015, 4, 48-61.	1.2	20
33	A Whole-Animal Microplate Assay for Metabolic Rate Using Zebrafish. Journal of Biomolecular Screening, 2008, 13, 960-967.	2.6	19
34	Transcriptional inhibition of etv2 expression is essential for embryonic cardiac development. Developmental Biology, 2014, 393, 71-83.	2.0	19
35	Temporal and Spatial Post-Transcriptional Regulation of Zebrafishtie1mRNA by Long Noncoding RNA During Brain Vascular Assembly. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1562-1575.	2.4	19
36	Role of dual-specificity protein phosphatase-5 in modulating the myogenic response in rat cerebral arteries. Journal of Applied Physiology, 2013, 114, 252-261.	2.5	18

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37	Nogo-B receptor deficiency causes cerebral vasculature defects during embryonic development in mice. Developmental Biology, 2016, 410, 190-201.	2.0	18
38	Dual Specificity Phosphatase 5â€Substrate Interaction: A Mechanistic Perspective. , 2017, 7, 1449-1461.		16
39	Established, New and Emerging Concepts in Brain Vascular Development. Frontiers in Physiology, 2021, 12, 636736.	2.8	16
40	Sox Factors Transcriptionally Regulate ROBO4 Gene Expression in Developing Vasculature in Zebrafish. Journal of Biological Chemistry, 2011, 286, 30740-30747.	3.4	15
41	Endothelial Cell-specific Chemotaxis Receptor (ECSCR) Enhances Vascular Endothelial Growth Factor (VEGF) Receptor-2/Kinase Insert Domain Receptor (KDR) Activation and Promotes Proteolysis of Internalized KDR*. Journal of Biological Chemistry, 2013, 288, 10265-10274.	3.4	15
42	Delta-like 4 mRNA is regulated by adjacent natural antisense transcripts. Vascular Cell, 2015, 7, 3.	0.2	15
43	Dual Specificity Phosphatase 5 Is Essential for T Cell Survival. PLoS ONE, 2016, 11, e0167246.	2.5	15
44	Cystathionine Î²-Synthase Is Necessary for Axis Development in Vivo. Frontiers in Cell and Developmental Biology, 2018, 6, 14.	3.7	14
45	Fli+ etsrp+ Hemato-Vascular Progenitor Cells Proliferate at the Lateral Plate Mesoderm during Vasculogenesis in Zebrafish. PLoS ONE, 2011, 6, e14732.	2.5	14
46	Specific inhibition of cyclin-dependent kinase 5 activity induces motor neuron development in vivo. Biochemical and Biophysical Research Communications, 2009, 386, 263-267.	2.1	13
47	Sucrose Nonfermenting-Related Kinase Enzymeâ€“Mediated Rho-Associated Kinase Signaling is Responsible for Cardiac Function. Circulation: Cardiovascular Genetics, 2016, 9, 474-486.	5.1	13
48	DUSP5 expression in left ventricular cardiomyocytes of young hearts regulates thyroid hormone (T3)-induced proliferative ERK1/2 signaling. Scientific Reports, 2020, 10, 21918.	3.3	13
49	Rapamycin treatment correlates changes in primary cilia expression with cell cycle regulation in epithelial cells. Biochemical Pharmacology, 2020, 178, 114056.	4.4	11
50	Protein expression, characterization and activity comparisons of wild type and mutant DUSP5 proteins. BMC Biochemistry, 2014, 15, 27.	4.4	10
51	Cardiomyocyteâ€Specific Snrk Prevents Inflammation in the Heart. Journal of the American Heart Association, 2019, 8, e012792.	3.7	10
52	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. PLoS ONE, 2020, 15, e0235852.	2.5	10
53	Identification of inhibitors that target dual-specificity phosphatase 5 provide new insights into the binding requirements for the two phosphate pockets. BMC Biochemistry, 2015, 16, 19.	4.4	8
54	Endothelial Cell Surface Expressed Chemotaxis and Apoptosis Regulator (ECSCR) Regulates Lipolysis in White Adipocytes via the PTEN/AKT Signaling Pathway. PLoS ONE, 2015, 10, e0144185.	2.5	8

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55	Serendipitous discovery of light-induced (In Situ) formation of an Azo-bridged dimeric sulfonated naphthol as a potent PTP1B inhibitor. BMC Biochemistry, 2017, 18, 10.	4.4	7
56	Hepatic Vein Blood Increases Lung Microvascular Angiogenesis and Endothelial Cell Survivalâ€"Toward an Understanding of Univentricular Circulation. Seminars in Thoracic and Cardiovascular Surgery, 2020, 32, 980-987.	0.6	7
57	Gene Expression in Experimental Aortic Coarctation and Repair: Candidate Genes for Therapeutic Intervention?. PLoS ONE, 2015, 10, e0133356.	2.5	7
58	Protein structure in context: The molecular landscape of angiogenesis. Biochemistry and Molecular Biology Education, 2013, 41, 213-223.	1.2	6
59	The Role of Astrocytes in Tumor Growth and Progression. , 0, , .		6
60	Discovery and characterization of halogenated xanthene inhibitors of DUSP5 as potential photodynamic therapeutics. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 114-131.	3.9	6
61	Critical Role of the Secondary Binding Pocket in Modulating the Enzymatic Activity of DUSP5 toward Phosphorylated ERKs. Biochemistry, 2016, 55, 6187-6195.	2.5	5
62	Sucrose Non-Fermenting Related Kinase Expression in Ovarian Cancer and Correlation with Clinical Features. Cancer Investigation, 2017, 35, 456-462.	1.3	4
63	Lessons learned from a lncRNA odyssey for two genes with vascular functions, DLL4 and TIE1. Vascular Pharmacology, 2019, 114, 103-109.	2.1	4
64	SNRK: a metabolic regulator with multifaceted role in development and disease. Vessel Plus, 0, 4, 26.	0.4	4
65	Ciliogenesis mechanisms mediated by PAK2-ARL13B signaling in brain endothelial cells is responsible for vascular stability. Biochemical Pharmacology, 2022, 202, 115143.	4.4	4
66	Studies on Axenfeld-Rieger syndrome patients and mice reveal Foxc1's role in corneal neovascularization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1818-1819.	7.1	3
67	sVEGFR1 Is Enriched in Hepatic Vein Bloodâ€"Evidence for a Provisional Hepatic Factor Candidate?. Frontiers in Pediatrics, 2021, 9, 679572.	1.9	3
68	Cilia proteins are biomarkers of altered flow in the vasculature. JCI Insight, 2022, 7, .	5.0	3
69	Vasculogenesis and Angiogenesis. Molecular and Translational Medicine, 2016, , 77-99.	0.4	2
70	Editorial: Molecular Mechanisms and Signaling in Endothelial Cell Biology and Vascular Heterogeneity. Frontiers in Cell and Developmental Biology, 2021, 9, 821100.	3.7	2
71	Role of Conserved Histidine and Serine in the HCXXXXXRS Motif of Human Dual-Specificity Phosphatase 5. Journal of Chemical Information and Modeling, 2019, 59, 1563-1574.	5.4	1
72	Abstract B10: Overexpression of the lncRNA PVT1 contributes to the cervical cancer phenotype, possibly via association with nucleolin. , 2016, , .		1

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73	Coagulation Factor IIIa (f3a) Knockdown in Zebrafish Leads to Defective Angiogenesis and Mild Bleeding Phenotype. Frontiers in Cell and Developmental Biology, 2022, 10, 852989.	3.7	1
74	Sucrose non-fermenting related kinase regulates cardiomyocyte protection during cardiac stress. Free Radical Biology and Medicine, 2018, 128, S42-S43.	2.9	0
75	The Yin and the Yang of Transformative Research During the COVID-19 Pandemicâ€"A Perspective. Frontiers in Pediatrics, 2021, 9, 650302.	1.9	0
76	Syx, a novel Rho A guanine exchange factor, is essential for angiogenesis in vivo. FASEB Journal, 2008, 22, 34-34.	0.5	0
77	Sox transcription factor mediated transcriptional regulation of Robo4 expression and function. FASEB Journal, 2010, 24, 9.3.	0.5	0
78	CYP Pathway Modulators Alter Development and Angiogenesis in Zebrafish Embryos. FASEB Journal, 2011, 25, lb437.	0.5	0
79	Protein Structure in Context: The Landscape of Angiogenesis. FASEB Journal, 2013, 27, 1031.10.	0.5	0
80	Endothelial cell surface expressed chemotaxis and apoptosis regulator controls white adipose tissue lipolysis through modulation of PI3/AKT pathway (1095.8). FASEB Journal, 2014, 28, 1095.8.	0.5	0
81	ECSCR enhances KDR activation and promotes proteolysis of internalized KDR (LB160). FASEB Journal, 2014, 28, LB160.	0.5	0
82	Abstract 117: RhoC Regulates VEGF-induced Signaling in Endothelial Cells. Circulation Research, 2014, 115, .	4.5	0
83	Abstract LB-145: Astrocytes directly influence tumor cell invasion and metastasis in vivo. , 2014, , .		0
84	Identification of Polysulfonated Inhibitors that Target Dual Specificity Phosphatase 5 and Provide New Insights into the Binding Requirements for Dualâ€Phosphate Substrate Pockets. FASEB Journal, 2015, 29, 1022.6.	0.5	0
85	Abstract 149: Overexpression of the long non-coding RNA PVT1 and its role in cervical carcinogenesis. , 2015, , .		0
86	Abstract POSTER-BIOL-1302: Sucrose nonfermenting 1-related kinase (SNRK) expression and function in vitro in ovarian cancer cells. , 2015, , .		0
87	RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. Development (Cambridge), 2015, 142, e1.1-e1.1.	2.5	0
88	Abstract B08: Astrocytes in the microenvironment influence breast cancer cell metastasis. , 2015, , .		0
89	Abstract B57: Sucrose nonfermenting 1-related kinase (SNRK) expression and function in ovarian cancer.. , 2016, , .		0
90	Abstract A03: The effects of the cellular microenvironment on medulloblastoma metastasis. , 2016, , .		0

#	Article	IF	Citations
91	Abstract 1702: Sucrose nonfermenting 1-related kinase (SNRK) expression in ovarian cancer and correlation with clinical features. , 2016, , .		0
92	Abstract LB-215: Astrocytes promote brain metastasis of triple-negative great cancer through TGF-Î²2/ANGPTL4 axis. , 2017, , .		0
93	Tumor Conditioning Regimens: An Evolution in Cancer Treatment that Relies on Short-Term Sacrifice for Long-Term Gain. Gynecology and Obstetrics Research: Open Journal, 2017, 4, 41-43.	1.6	0
94	SNRK: a metabolic regulator with multifaceted role in development and disease. Vessel Plus, 2020, 4, .	0.4	0
95	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0
96	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0
97	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0
98	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0
99	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0
100	Astrocytes influence medulloblastoma phenotypes and CD133 surface expression. , 2020, 15, e0235852.		0