

Tatiana V Petrova

List of Publications by Year in descending order

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79
papers

11,402
citations

71102

41
h-index

66911

78
g-index

82
all docs

82
docs citations

82
times ranked

12806
citing authors

#	ARTICLE	IF	CITATIONS
1	Microenvironmental regulation of tumour angiogenesis. <i>Nature Reviews Cancer</i> , 2017, 17, 457-474.	28.4	1,299
2	Vascular endothelial growth factor C is required for sprouting of the first lymphatic vessels from embryonic veins. <i>Nature Immunology</i> , 2004, 5, 74-80.	14.5	1,208
3	Signalling via vascular endothelial growth factor receptor-3 is sufficient for lymphangiogenesis in transgenic mice. <i>EMBO Journal</i> , 2001, 20, 1223-1231.	7.8	583
4	Lymphatic endothelial reprogramming of vascular endothelial cells by the Prox-1 homeobox transcription factor. <i>EMBO Journal</i> , 2002, 21, 4593-4599.	7.8	544
5	Defective valves and abnormal mural cell recruitment underlie lymphatic vascular failure in lymphedema distichiasis. <i>Nature Medicine</i> , 2004, 10, 974-981.	30.7	515
6	Pathogenesis of persistent lymphatic vessel hyperplasia in chronic airway inflammation. <i>Journal of Clinical Investigation</i> , 2005, 115, 247-257.	8.2	475
7	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018, 21, 425-532.	7.2	429
8	Lymphatic Neoangiogenesis in Human Kidney Transplants Is Associated with Immunologically Active Lymphocytic Infiltrates. <i>Journal of the American Society of Nephrology: JASN</i> , 2004, 15, 603-612.	6.1	427
9	STING activation of tumor endothelial cells initiates spontaneous and therapeutic antitumor immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15408-15413.	7.1	404
10	Vascular endothelial growth factor receptors in the regulation of angiogenesis and lymphangiogenesis. <i>Oncogene</i> , 2000, 19, 5598-5605.	5.9	374
11	Lymphatic vascular morphogenesis in development, physiology, and disease. <i>Journal of Cell Biology</i> , 2011, 193, 607-618.	5.2	344
12	Mechanotransduction, PROX1, and FOXC2 Cooperate to Control Connexin37 and Calcineurin during Lymphatic-Valve Formation. <i>Developmental Cell</i> , 2012, 22, 430-445.	7.0	339
13	Pathogenesis of persistent lymphatic vessel hyperplasia in chronic airway inflammation. <i>Journal of Clinical Investigation</i> , 2005, 115, 247-257.	8.2	326
14	Therapeutic differentiation and maturation of lymphatic vessels after lymph node dissection and transplantation. <i>Nature Medicine</i> , 2007, 13, 1458-1466.	30.7	321
15	FOXC2 controls formation and maturation of lymphatic collecting vessels through cooperation with NFATc1. <i>Journal of Cell Biology</i> , 2009, 185, 439-457.	5.2	295
16	Organ-specific lymphatic vasculature: From development to pathophysiology. <i>Journal of Experimental Medicine</i> , 2018, 215, 35-49.	8.5	231
17	Biological functions of lymphatic vessels. <i>Science</i> , 2020, 369, .	12.6	220
18	FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. <i>Journal of Clinical Investigation</i> , 2015, 125, 3861-3877.	8.2	186

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19	GATA2 is required for lymphatic vessel valve development and maintenance. <i>Journal of Clinical Investigation</i> , 2015, 125, 2979-2994.	8.2	177
20	Transcription Factor PROX1 Induces Colon Cancer Progression by Promoting the Transition from Benign to Highly Dysplastic Phenotype. <i>Cancer Cell</i> , 2008, 13, 407-419.	16.8	166
21	Intestinal lymphatic vasculature: structure, mechanisms and functions. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 510-526.	17.8	163
22	DLL4 promotes continuous adult intestinal lacteal regeneration and dietary fat transport. <i>Journal of Clinical Investigation</i> , 2015, 125, 4572-4586.	8.2	145
23	The NAD-Booster Nicotinamide Riboside Potently Stimulates Hematopoiesis through Increased Mitochondrial Clearance. <i>Cell Stem Cell</i> , 2019, 24, 405-418.e7.	11.1	143
24	An Unexpected Role of Semaphorin3A in Neuropilin-1 Signaling in Lymphatic Vessel Maturation and Valve Formation. <i>Circulation Research</i> , 2012, 111, 426-436.	4.5	129
25	Molecular lymphangiogenesis: new players. <i>Trends in Cell Biology</i> , 2005, 15, 434-441.	7.9	118
26	Angiopoietin 2 regulates the transformation and integrity of lymphatic endothelial cell junctions. <i>Genes and Development</i> , 2014, 28, 1592-1603.	5.9	115
27	Developmental and pathological lymphangiogenesis: from models to human disease. <i>Histochemistry and Cell Biology</i> , 2008, 130, 1063-1078.	1.7	95
28	Adrenomedullin Induces Cardiac Lymphangiogenesis After Myocardial Infarction and Regulates Cardiac Edema Via Connexin 43. <i>Circulation Research</i> , 2019, 124, 101-113.	4.5	86
29	Multiple roles of lymphatic vessels in peripheral lymph node development. <i>Journal of Experimental Medicine</i> , 2018, 215, 2760-2777.	8.5	85
30	Pkd1 Regulates Lymphatic Vascular Morphogenesis during Development. <i>Cell Reports</i> , 2014, 7, 623-633.	6.4	77
31	Stability and function of adult vasculature is sustained by Akt/Jagged1 signalling axis in endothelium. <i>Nature Communications</i> , 2016, 7, 10960.	12.8	77
32	PROX1 Promotes Metabolic Adaptation and Fuels Outgrowth of Wnt high Metastatic Colon Cancer Cells. <i>Cell Reports</i> , 2014, 8, 1957-1973.	6.4	66
33	The transcription factor Prox1 is essential for satellite cell differentiation and muscle fibre-type regulation. <i>Nature Communications</i> , 2016, 7, 13124.	12.8	62
34	High-resolution 3D analysis of mouse small-intestinal stroma. <i>Nature Protocols</i> , 2016, 11, 1617-1629.	12.0	60
35	Organ-specific lymphangiectasia, arrested lymphatic sprouting, and maturation defects resulting from gene targeting of the PI3K regulatory isoforms p85 α , p55 α , and p50 α . <i>Developmental Dynamics</i> , 2009, 238, 2670-2679.	1.8	54
36	Disrupting Myelin-Specific Th17 Cell Gut Homing Confers Protection in an Adoptive Transfer Experimental Autoimmune Encephalomyelitis. <i>Cell Reports</i> , 2019, 29, 378-390.e4.	6.4	51

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37	Uncoupling protein 2 reprograms the tumor microenvironment to support the anti-tumor immune cycle. <i>Nature Immunology</i> , 2019, 20, 206-217.	14.5	51
38	A fluorescent Tie1 reporter allows monitoring of vascular development and endothelial cell isolation from transgenic mouse embryos. <i>FASEB Journal</i> , 2002, 16, 1764-1774.	0.5	49
39	Phosphorylation Regulates FOXC2-Mediated Transcription in Lymphatic Endothelial Cells. <i>Molecular and Cellular Biology</i> , 2013, 33, 3749-3761.	2.3	48
40	Dielectric elastomer actuator for mechanical loading of 2D cell cultures. <i>Lab on A Chip</i> , 2016, 16, 3788-3794.	6.0	47
41	Liprin $\beta 2$ is highly expressed in lymphatic vasculature and is important for lymphatic vessel integrity. <i>Blood</i> , 2010, 115, 906-909.	1.4	44
42	Development and aging of the lymphatic vascular system. <i>Advanced Drug Delivery Reviews</i> , 2021, 169, 63-78.	13.7	44
43	Endothelial Cell Responses to Biomechanical Forces in Lymphatic Vessels. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 451-465.	5.4	43
44	FOXC2 controls adult lymphatic endothelial specialization, function, and gut lymphatic barrier preventing multiorgan failure. <i>Science Advances</i> , 2021, 7, .	10.3	43
45	Shear stimulation of FOXC1 and FOXC2 differentially regulates cytoskeletal activity during lymphatic valve maturation. <i>ELife</i> , 2020, 9, .	6.0	43
46	Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. <i>Nature Communications</i> , 2015, 6, 7274.	12.8	42
47	Connexins in lymphatic vessel physiology and disease. <i>FEBS Letters</i> , 2014, 588, 1271-1277.	2.8	37
48	Tannins from <i>Syzygium guineense</i> suppress Wnt signaling and proliferation of Wnt-dependent tumors through a direct effect on secreted Wnts. <i>Cancer Letters</i> , 2018, 435, 110-120.	7.2	35
49	Antiangiogenic immunotherapy suppresses desmoplastic and chemoresistant intestinal tumors in mice. <i>Journal of Clinical Investigation</i> , 2020, 130, 1199-1216.	8.2	35
50	Molecular Regulation of Lymphangiogenesis. <i>Annals of the New York Academy of Sciences</i> , 2004, 1014, 76-87.	3.8	33
51	Interplay of Mechanotransduction, FOXC2, Connexins, and Calcineurin Signaling in Lymphatic Valve Formation. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2014, 214, 67-80.	1.6	32
52	Human venous valve disease caused by mutations in <i>FOXC2</i> and <i>GJC2</i> . <i>Journal of Experimental Medicine</i> , 2017, 214, 2437-2452.	8.5	29
53	PROX1 is a transcriptional regulator of MMP14. <i>Scientific Reports</i> , 2018, 8, 9531.	3.3	26
54	Mouse model of postsurgical primary tumor recurrence and regional lymph node metastasis progression in HPV-related head and neck cancer. <i>International Journal of Cancer</i> , 2018, 142, 2518-2528.	5.1	25

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55	Macrophage depletion induces edema through release of matrix-degrading proteases and proteoglycan deposition. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	24
56	Therapeutic Regeneration of Lymphatic and Immune Cell Functions upon Lympho-organoid Transplantation. <i>Stem Cell Reports</i> , 2019, 12, 1260-1268.	4.8	20
57	Optimized low-dose combinatorial drug treatment boosts selectivity and efficacy of colorectal carcinoma treatment. <i>Molecular Oncology</i> , 2020, 14, 2894-2919.	4.6	20
58	IFN- γ -dependent tumor-antigen cross-presentation by lymphatic endothelial cells promotes their killing by T cells and inhibits metastasis. <i>Science Advances</i> , 2022, 8, .	10.3	20
59	ADAMTS18+ villus tip telocytes maintain a polarized VEGFA signaling domain and fenestrations in nutrient-absorbing intestinal blood vessels. <i>Nature Communications</i> , 2022, 13, .	12.8	20
60	Characterization of Mouse Mesenteric Lymphatic Valve Structure and Function. <i>Methods in Molecular Biology</i> , 2018, 1846, 97-129.	0.9	18
61	Cx47 fine-tunes the handling of serum lipids but is dispensable for lymphatic vascular function. <i>PLoS ONE</i> , 2017, 12, e0181476.	2.5	17
62	Loss of vascular endothelial notch signaling promotes spontaneous formation of tertiary lymphoid structures. <i>Nature Communications</i> , 2022, 13, 2022.	12.8	16
63	Correlation between podoplanin expression and extracapsular spread in squamous cell carcinoma of the oral cavity using subjective immunoreactivity scores and semiquantitative image analysis. <i>Head and Neck</i> , 2017, 39, 98-108.	2.0	15
64	Endothelial Calcineurin Signaling Restrains Metastatic Outgrowth by Regulating Bmp2. <i>Cell Reports</i> , 2019, 26, 1227-1241.e6.	6.4	15
65	Transcription factor FOXP2 is a flow-induced regulator of collecting lymphatic vessels. <i>EMBO Journal</i> , 2021, 40, e107192.	7.8	14
66	Prediction of Occult Lymph Node Metastasis in Head and Neck Cancer with CD31 Vessel Quantification. <i>Otolaryngology - Head and Neck Surgery</i> , 2019, 160, 277-283.	1.9	13
67	Palmdelphin Regulates Nuclear Resilience to Mechanical Stress in the Endothelium. <i>Circulation</i> , 2021, 144, 1629-1645.	1.6	13
68	Apelin-driven endothelial cell migration sustains intestinal progenitor cells and tumor growth. , 2022, 1, 476-490.		13
69	All TIEd up: mechanisms of Schlemm's canal maintenance. <i>Journal of Clinical Investigation</i> , 2017, 127, 3594-3597.	8.2	10
70	Mechanosensitive ACKR4 scavenges CCR7 chemokines to facilitate T cell de-adhesion and passive transport by flow in inflamed afferent lymphatics. <i>Cell Reports</i> , 2022, 38, 110334.	6.4	10
71	Soluble trivalent engagers redirect cytolytic T cell activity toward tumor endothelial marker 1. <i>Cell Reports Medicine</i> , 2021, 2, 100362.	6.5	9
72	Meet Me in the Middle. <i>Circulation Research</i> , 2015, 116, 1630-1632.	4.5	8

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73	The C5a-C5aR1 complement axis is essential for neutrophil recruitment to draining lymph nodes via high endothelial venules in cutaneous leishmaniasis. <i>Cell Reports</i> , 2022, 39, 110777.	6.4	7
74	Prediction of occult lymph node metastasis in squamous cell carcinoma of the oral cavity and the oropharynx using peritumoral Prospero homeobox protein 1 lymphatic nuclear quantification. <i>Head and Neck</i> , 2016, 38, 1407-1415.	2.0	6
75	Lef1 restricts ectopic crypt formation and tumor cell growth in intestinal adenomas. <i>Science Advances</i> , 2021, 7, eabj0512.	10.3	6
76	Expression of Prox1 in Medullary Thyroid Carcinoma Is Associated with Chromogranin A and Calcitonin Expression and with Ki67 Proliferative Index, but Not with Prognosis. <i>Endocrine Pathology</i> , 2019, 30, 138-145.	9.0	4
77	Stem-cell-like T ^A cells have a specific entry gate to the tumor. <i>Cancer Cell</i> , 2022, 40, 243-245.	16.8	4
78	The double life of TLR2. <i>Science Signaling</i> , 2021, 14, eabf4701.	3.6	1
79	Abstract 18661: Regulation of Lymphatic Physiology by Connexin47. <i>Circulation</i> , 2015, 132, .	1.6	0