

# Tatiana V Byzova

## List of Publications by Citations

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122  
papers

7,672  
citations

46  
h-index

86  
g-index

136  
ext. papers

8,463  
ext. citations

8.8  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
122	Platelet GPIIb-IIIa blockers. <i>Lancet, The</i> , <b>1999</b> , 353, 227-31	40	446
121	Oxidative stress in angiogenesis and vascular disease. <i>Blood</i> , <b>2014</b> , 123, 625-31	2.2	387
120	Platelet CD36 links hyperlipidemia, oxidant stress and a prothrombotic phenotype. <i>Nature Medicine</i> , <b>2007</b> , 13, 1086-95	50.5	346
119	Akt1 regulates pathological angiogenesis, vascular maturation and permeability in vivo. <i>Nature Medicine</i> , <b>2005</b> , 11, 1188-96	50.5	338
118	Oxidative stress induces angiogenesis by activating TLR2 with novel endogenous ligands. <i>Nature</i> , <b>2010</b> , 467, 972-6	50.4	325
117	A mechanism for modulation of cellular responses to VEGF: activation of the integrins. <i>Molecular Cell</i> , <b>2000</b> , 6, 851-60	17.6	301
116	A point mutation in KINDLIN3 ablates activation of three integrin subfamilies in humans. <i>Nature Medicine</i> , <b>2009</b> , 15, 313-8	50.5	281
115	Mechanisms of integrin-vascular endothelial growth factor receptor cross-activation in angiogenesis. <i>Circulation Research</i> , <b>2007</b> , 101, 570-80	15.7	243
114	Akt1 in endothelial cell and angiogenesis. <i>Cell Cycle</i> , <b>2006</b> , 5, 512-8	4.7	203
113	Impaired platelet responses to thrombin and collagen in AKT-1-deficient mice. <i>Blood</i> , <b>2004</b> , 104, 1703-10	2.2	196
112	Cooperation between integrin alphavbeta3 and VEGFR2 in angiogenesis. <i>Angiogenesis</i> , <b>2009</b> , 12, 177-85	10.6	185
111	VEGF-integrin interplay controls tumor growth and vascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 7589-94	11.5	158
110	Integrin signaling is critical for pathological angiogenesis. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 2495-507	16.6	157
109	Prostate cancer specific integrin alphavbeta3 modulates bone metastatic growth and tissue remodeling. <i>Oncogene</i> , <b>2007</b> , 26, 6238-43	9.2	153
108	Role of Integrin $\alpha$ 3 in Vascular Biology. <i>Thrombosis and Haemostasis</i> , <b>1998</b> , 80, 726-734	7	144
107	Inflammation and oxidative stress in angiogenesis and vascular disease. <i>Journal of Molecular Medicine</i> , <b>2013</b> , 91, 323-8	5.5	139
106	Engagement of platelet toll-like receptor 9 by novel endogenous ligands promotes platelet hyperreactivity and thrombosis. <i>Circulation Research</i> , <b>2013</b> , 112, 103-12	15.7	122

105	Molecular pathway for cancer metastasis to bone. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 39044-50	5.4	114
104	ERK1/2-Akt1 crosstalk regulates arteriogenesis in mice and zebrafish. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 1217-28	15.9	110
103	Angiogenesis in melanoma. <i>Seminars in Oncology</i> , <b>2007</b> , 34, 555-65	5.5	105
102	Activation of integrin alpha(V)beta(3) regulates cell adhesion and migration to bone sialoprotein. <i>Experimental Cell Research</i> , <b>2000</b> , 254, 299-308	4.2	104
101	Notch promotes vascular maturation by inducing integrin-mediated smooth muscle cell adhesion to the endothelial basement membrane. <i>Blood</i> , <b>2012</b> , 119, 2149-58	2.2	101
100	Kindlins in FERM adhesion. <i>Blood</i> , <b>2010</b> , 115, 4011-7	2.2	97
99	Activation of alphaVbeta3 on vascular cells controls recognition of prothrombin. <i>Journal of Cell Biology</i> , <b>1998</b> , 143, 2081-92	7.3	97
98	Adenovirus encoding vascular endothelial growth factor-D induces tissue-specific vascular patterns in vivo. <i>Blood</i> , <b>2002</b> , 99, 4434-42	2.2	94
97	Thrombospondin-1 up-regulates expression of cell adhesion molecules and promotes monocyte binding to endothelium. <i>FASEB Journal</i> , <b>2005</b> , 19, 1158-60	0.9	92
96	State-of-the-Art Methods for Evaluation of Angiogenesis and Tissue Vascularization: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , <b>2015</b> , 116, e99-132	15.7	90
95	Integrin and growth factor receptor alliance in angiogenesis. <i>Cell Biochemistry and Biophysics</i> , <b>2009</b> , 53, 53-64	3.2	90
94	Networking in the hemostatic system. Integrin alphaIIb beta3 binds prothrombin and influences its activation. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 27183-8	5.4	87
93	Akt1 signaling regulates integrin activation, matrix recognition, and fibronectin assembly. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 22964-76	5.4	87
92	A novel role for platelet secretion in angiogenesis: mediating bone marrow-derived cell mobilization and homing. <i>Blood</i> , <b>2011</b> , 117, 3893-902	2.2	85
91	Oxidized high-density lipoprotein inhibits platelet activation and aggregation via scavenger receptor BI. <i>Blood</i> , <b>2008</b> , 111, 1962-71	2.2	82
90	The integrin co-activator Kindlin-3 is expressed and functional in a non-hematopoietic cell, the endothelial cell. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 18640-9	5.4	81
89	Peptide ligands can bind to distinct sites in integrin alphaIIb beta3 and elicit different functional responses. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 16923-32	5.4	74
88	Kindling the flame of integrin activation and function with kindlins. <i>Current Opinion in Hematology</i> , <b>2009</b> , 16, 323-8	3.3	67

87	Integrin alphaIIb beta3 and its antagonism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2003</b> , 23, 945-52	9.4	67
86	Integrin affinity modulation in angiogenesis. <i>Cell Cycle</i> , <b>2008</b> , 7, 335-47	4.7	66
85	Platelets govern pre-metastatic tumor communication to bone. <i>Oncogene</i> , <b>2013</b> , 32, 4319-24	9.2	60
84	Conformational activation of talin by RIAM triggers integrin-mediated cell adhesion. <i>Nature Communications</i> , <b>2014</b> , 5, 5880	17.4	59
83	Structure of Rap1b bound to talin reveals a pathway for triggering integrin activation. <i>Nature Communications</i> , <b>2017</b> , 8, 1744	17.4	58
82	The integrin coactivator kindlin-2 plays a critical role in angiogenesis in mice and zebrafish. <i>Blood</i> , <b>2011</b> , 117, 4978-87	2.2	55
81	Akt3 deficiency in macrophages promotes foam cell formation and atherosclerosis in mice. <i>Cell Metabolism</i> , <b>2012</b> , 15, 861-72	24.6	54
80	Stability and function of adult vasculature is sustained by Akt/Jagged1 signalling axis in endothelium. <i>Nature Communications</i> , <b>2016</b> , 7, 10960	17.4	53
79	Akt1 is necessary for the vascular maturation and angiogenesis during cutaneous wound healing. <i>Angiogenesis</i> , <b>2008</b> , 11, 277-88	10.6	53
78	Metastatic properties of prostate cancer cells are controlled by VEGF. <i>Cell Communication and Adhesion</i> , <b>2004</b> , 11, 1-11		53
77	The role of PAK-1 in activation of MAP kinase cascade and oncogenic transformation by Akt. <i>Oncogene</i> , <b>2009</b> , 28, 2365-9	9.2	48
76	Tyrosine phosphorylation of integrin beta3 regulates kindlin-2 binding and integrin activation. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 30370-4	5.4	44
75	Deficiency in core circadian protein Bmal1 is associated with a prothrombotic and vascular phenotype. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 132-40	7	43
74	Coronary artery disease and the thrombospondin single nucleotide polymorphisms. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2004</b> , 36, 1013-30	5.6	43
73	Integrin function in vascular biology: a view from 2013. <i>Current Opinion in Hematology</i> , <b>2014</b> , 21, 241-7	3.3	41
72	Oxidation as "the stress of life". <i>Aging</i> , <b>2011</b> , 3, 906-10	5.6	41
71	TGFβ and bleomycin-induced extracellular matrix synthesis is mediated through Akt and mammalian target of rapamycin (mTOR). <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 3004-13	7	41
70	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> , <b>2009</b> , 218, 394-404	7	41

69	The angiogenic response is dictated by beta3 integrin on bone marrow-derived cells. <i>Journal of Cell Biology</i> , <b>2008</b> , 183, 1145-57	7.3	41
68	Integrin signaling in vascular function. <i>Current Opinion in Hematology</i> , <b>2012</b> , 19, 206-11	3.3	39
67	TLR2 Plays a Key Role in Platelet Hyperreactivity and Accelerated Thrombosis Associated With Hyperlipidemia. <i>Circulation Research</i> , <b>2017</b> , 121, 951-962	15.7	36
66	α <sub>IIb</sub> β <sub>3</sub> and Its Antagonism at the New Millennium. <i>Thrombosis and Haemostasis</i> , <b>2001</b> , 86, 34-40	7	35
65	Molecular and functional differences induced in thrombospondin-1 by the single nucleotide polymorphism associated with the risk of premature, familial myocardial infarction. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 21651-7	5.4	33
64	Ossified blood vessels in primary familial brain calcification elicit a neurotoxic astrocyte response. <i>Brain</i> , <b>2019</b> , 142, 885-902	11.2	32
63	Integrin β crosstalk with VEGFR accommodating tyrosine phosphorylation as a regulatory switch. <i>PLoS ONE</i> , <b>2012</b> , 7, e31071	3.7	32
62	Novel phosphatidylethanolamine derivatives accumulate in circulation in hyperlipidemic ApoE <sup>-/-</sup> mice and activate platelets via TLR2. <i>Blood</i> , <b>2016</b> , 127, 2618-29	2.2	32
61	Direct interaction of kindlin-3 with integrin α <sub>IIb</sub> β <sub>3</sub> in platelets is required for supporting arterial thrombosis in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2014</b> , 34, 1961-7	9.4	31
60	Akt1 promotes stimuli-induced endothelial-barrier protection through FoxO-mediated tight-junction protein turnover. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 3917-33	10.3	29
59	Comparison of tumor and microenvironment secretomes in plasma and in platelets during prostate cancer growth in a xenograft model. <i>Neoplasia</i> , <b>2010</b> , 12, 388-96	6.4	27
58	Phase II trial of GM-CSF + thalidomide in patients with androgen-independent metastatic prostate cancer. <i>Urologic Oncology: Seminars and Original Investigations</i> , <b>2005</b> , 23, 82-6	2.8	27
57	CD117+ cells in the circulation are predictive of advanced prostate cancer. <i>Oncotarget</i> , <b>2015</b> , 6, 1889-97	3.3	27
56	Oxidative modifications of extracellular matrix promote the second wave of inflammation via α <sub>IIb</sub> β <sub>3</sub> integrins. <i>Blood</i> , <b>2018</b> , 132, 78-88	2.2	26
55	Interference with akt signaling protects against myocardial infarction and death by limiting the consequences of oxidative stress. <i>Science Signaling</i> , <b>2013</b> , 6, ra67	8.8	26
54	Novel aspects of Kindlin-3 function in humans based on a new case of leukocyte adhesion deficiency III. <i>Journal of Thrombosis and Haemostasis</i> , <b>2012</b> , 10, 1397-408	15.4	24
53	Akt1 mediates prostate cancer cell microinvasion and chemotaxis to metastatic stimuli via integrin α <sub>IIb</sub> β <sub>3</sub> affinity modulation. <i>British Journal of Cancer</i> , <b>2012</b> , 107, 713-23	8.7	24
52	Regulation of cell adhesion and migration by Kindlin-3 cleavage by calpain. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 40012-20	5.4	24

51	Methods for isolation of endothelial and smooth muscle cells and in vitro proliferation assays. <i>Methods in Molecular Medicine</i> , <b>2006</b> , 129, 197-208		24
50	The biology of glycoprotein IIb-IIIa. <i>Coronary Artery Disease</i> , <b>1999</b> , 10, 547-51	1.4	23
49	Structural Basis of Paxillin Recruitment by Kindlin-2 in Regulating Cell Adhesion. <i>Structure</i> , <b>2019</b> , 27, 1686-1697.e5	5.2	22
48	Tyrosine phosphorylation as a conformational switch: a case study of integrin $\beta$ cytoplasmic tail. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 40943-53	5.4	22
47	A Mechanism for Modulation of Cellular Responses to VEGF. <i>Molecular Cell</i> , <b>2000</b> , 6, 851-860	17.6	21
46	Receptor-Mediated Mechanism Controlling Tissue Levels of Bioactive Lipid Oxidation Products. <i>Circulation Research</i> , <b>2015</b> , 117, 321-32	15.7	20
45	Microglia control vascular architecture via a TGF $\beta$ dependent paracrine mechanism linked to tissue mechanics. <i>Nature Communications</i> , <b>2020</b> , 11, 986	17.4	20
44	Intraosseous injection of RM1 murine prostate cancer cells promotes rapid osteolysis and periosteal bone deposition. <i>Clinical and Experimental Metastasis</i> , <b>2008</b> , 25, 581-90	4.7	20
43	Augmented osteolysis in SPARC-deficient mice with bone-residing prostate cancer. <i>Neoplasia</i> , <b>2011</b> , 13, 31-9	6.4	19
42	Integrin-Kindlin3 requirements for microglial motility in vivo are distinct from those for macrophages. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	18
41	Direct contact with perivascular tumor cells enhances integrin $\alpha$ $\beta$ signaling and migration of endothelial cells. <i>Oncotarget</i> , <b>2016</b> , 7, 43852-43867	3.3	18
40	Akt3 kinase suppresses pinocytosis of low-density lipoprotein by macrophages via a novel WNK/SGK1/Cdc42 protein pathway. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 9283-9293	5.4	17
39	Differential effects of Akt1 signaling on short- versus long-term consequences of myocardial infarction and reperfusion injury. <i>Laboratory Investigation</i> , <b>2014</b> , 94, 1083-91	5.9	16
38	alphaB-crystallin: a novel VEGF chaperone. <i>Blood</i> , <b>2010</b> , 115, 3181-3	2.2	16
37	Akt3 inhibits adipogenesis and protects from diet-induced obesity via WNK1/SGK1 signaling. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	16
36	Site-specific phosphorylation of kindlin-3 protein regulates its capacity to control cellular responses mediated by integrin $\beta$ $\beta$ . <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 6226-42	5.4	15
35	Emergence and subsequent functional specialization of kindlins during evolution of cell adhesiveness. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 786-96	3.5	14
34	Biological and pathophysiological roles of end-products of DHA oxidation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 407-415	5	14

33	The PL(A2) allele and cardiovascular disease: the pro(33) and con. <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 697-8	15.9	10
32	Macrophage Migration and Phagocytosis Are Controlled by Kindlin-3& Link to the Cytoskeleton. <i>Journal of Immunology</i> , <b>2020</b> , 204, 1954-1967	5.3	9
31	Endothelial TLR2 promotes proangiogenic immune cell recruitment and tumor angiogenesis. <i>Science Signaling</i> , <b>2021</b> , 14,	8.8	9
30	Vascular integrin signaling. <i>Methods in Enzymology</i> , <b>2008</b> , 443, 199-226	1.7	8
29	Inhibition of integrin E-mediated macrophage adhesion to end product of docosahexaenoic acid (DHA) oxidation prevents macrophage accumulation during inflammation. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 14370-14382	5.4	7
28	Platelet TSP-1 controls prostate cancer-induced osteoclast differentiation and bone marrow-derived cell mobilization through TGFβ1. <i>American Journal of Clinical and Experimental Urology</i> , <b>2021</b> , 9, 18-31	1.6	5
27	Cross-linking modifications of HDL apoproteins by oxidized phospholipids: structural characterization, detection, and functional implications. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 1973-1984	5.4	4
26	Circulating CD36 is increased in hyperlipidemic mice: Cellular sources and triggers of release. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 168, 180-188	7.8	4
25	Prothrombotic lipoprotein patterns in stroke. <i>Blood</i> , <b>2016</b> , 127, 1221-2	2.2	4
24	"Fishing" out the real VEGFs. <i>Blood</i> , <b>2016</b> , 128, 2283-2284	2.2	3
23	Kindlin-3 mutation in mesenchymal stem cells results in enhanced chondrogenesis. <i>Experimental Cell Research</i> , <b>2021</b> , 399, 112456	4.2	3
22	Phosphorylation of platelet βs crucial for stability of arterial thrombus and microparticle formation in vivo. <i>Thrombosis Journal</i> , <b>2017</b> , 15, 22	5.6	2
21	CD40/TRAF6 switch in neointimal hyperplasia. <i>Blood</i> , <b>2008</b> , 111, 4424	2.2	2
20	Beta 3 Integrin Phosphorylation and VEGF Signaling.. <i>Blood</i> , <b>2005</b> , 106, 532-532	2.2	2
19	Inflammation-dependent oxidative stress metabolites as a hallmark of amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 178, 125-133	7.8	2
18	Platelet TSP-1 Controls Prostate Cancer-Induced Osteoclast Differentiation and Bone Marrow-Derived Cell Mobilization through TGFβ1		2
17	Kindlin3 regulates biophysical properties and mechanics of membrane to cortex attachment. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 4003-4018	10.3	2
16	Pentose phosphate pathway drives vascular maturation.. <i>Nature Metabolism</i> , <b>2022</b> , 4, 15-16	14.6	1

15	Integrins in bone recognition and metastasis. <i>Journal of Musculoskeletal Neuronal Interactions</i> , <b>2004</b> , 4, 374	1.3	1
14	Progressive skeletal defects caused by Kindlin3 deficiency, a model of autosomal recessive osteopetrosis in humans.. <i>Bone</i> , <b>2022</b> , 116397	4.7	0
13	INTERFERENCE WITH AKT SIGNALING IN DYSLIPIDEMIA DIMINISHES MYOCARDIAL INFARCTION AND PROMOTES SURVIVAL BY INHIBITING OXIDATIVE STRESS. <i>Heart</i> , <b>2012</b> , 98, E62.2-E63	5.1	
12	Matrix rules: microfibrillar protein controls vascular development. <i>Blood</i> , <b>2006</b> , 107, 4202-4203	2.2	
11	Platelets and Prothrombin <b>2005</b> , 283-300		
10	Platelet receptors: fibrinogen <b>2002</b> , 188-203		
9	Akt-1 Regulates Angiogenesis in Skin.. <i>Blood</i> , <b>2004</b> , 104, 845-845	2.2	
8	Casein Kinase II Inhibition in MEG-01 Cell Line Results in Apoptosis, Megakaryocytopoiesis and Functional Platelets Release.. <i>Blood</i> , <b>2005</b> , 106, 4328-4328	2.2	
7	Role of Casein Kinase 2 in Platelets Release from Megakaryocytes.. <i>Blood</i> , <b>2006</b> , 108, 1534-1534	2.2	
6	Role of beta3 Integrin in Pathological Angiogenesis. <i>FASEB Journal</i> , <b>2008</b> , 22, 470.10	0.9	
5	The angiogenic response is dictated by b3integrin on bone marrow-derived cells. <i>Journal of Experimental Medicine</i> , <b>2008</b> , 205, i28-i28	16.6	
4	The Integrin Co-Activator Kindlin-2 Plays a Critical Role In Angiogenesis and Blood Vessel Integrity. <i>Blood</i> , <b>2010</b> , 116, 4-4	2.2	
3	Agonist-Induced Kindlin-3 Phosphorylation Regulates $\alpha\text{IIb}\beta\text{3}$ Integrin Activation In HEL Cells and Platelets. <i>Blood</i> , <b>2013</b> , 122, 22-22	2.2	
2	Platelet Sequestered Proteins Mediate Pre-Metastatic Communication Between Tumors and Bone. <i>Blood</i> , <b>2013</b> , 122, 1063-1063	2.2	
1	Remodeling vasculature to avoid blindness. <i>Science</i> , <b>2020</b> , 369, 919-920	33.3	