Vsevolod A Tkachuk

List of Publications by Year
in descending order

120 papers	4,421 citations	101496 36 h-index	123376 61 g-index
121 all docs	121 docs citations	121 times ranked	5502 citing authors

#	Article	IF	Citations
1	Immature Vascular Smooth Muscle Cells in Healthy Murine Arteries and Atherosclerotic Plaques: Localization and Activity. International Journal of Molecular Sciences, 2022, 23, 1744.	1.8	0
2	Urokinase Receptor uPAR Downregulation in Neuroblastoma Leads to Dormancy, Chemoresistance and Metastasis. Cancers, 2022, 14, 994.	1.7	3
3	Urokinase-Type Plasminogen Activator Enhances the Neuroprotective Activity of Brain-Derived Neurotrophic Factor in a Model of Intracerebral Hemorrhage. Biomedicines, 2022, 10, 1346.	1.4	2
4	Scar-Free Healing of Endometrium: Tissue-Specific Program of Stromal Cells and Its Induction by Soluble Factors Produced After Damage. Frontiers in Cell and Developmental Biology, 2021, 9, 616893.	1.8	15
5	Decreased Insulin Sensitivity in Telomerase-Immortalized Mesenchymal Stem Cells Affects Efficacy and Outcome of Adipogenic Differentiation in vitro. Frontiers in Cell and Developmental Biology, 2021, 9, 662078.	1.8	8
6	Self-Organization Provides Cell Fate Commitment in MSC Sheet Condensed Areas via ROCK-Dependent Mechanism. Biomedicines, 2021, 9, 1192.	1.4	4
7	T-Cadherin and the Ratio of Its Ligands as Predictors of Carotid Atherosclerosis: A Pilot Study. Biomedicines, 2021, 9, 1398.	1.4	2
8	Early Induction of Neurotrophin Receptor and miRNA Genes in Mouse Brain after Pentilenetetrazole-Induced Neuronal Activity. Biochemistry (Moscow), 2021, 86, 1326-1341.	0.7	3
9	COVID-19 and metabolic disease: mechanisms and clinical management. Lancet Diabetes and Endocrinology,the, 2021, 9, 786-798.	5.5	155
10	MSC Secretome as a Promising Tool for Neuroprotection and Neuroregeneration in a Model of Intracerebral Hemorrhage. Pharmaceutics, 2021, 13, 2031.	2.0	10
11	Urokinase receptor and tissue plasminogen activator as immediateâ€early genes in pentylenetetrazoleâ€induced seizures in the mouse brain. European Journal of Neuroscience, 2020, 51, 1559-1572.	1.2	7
12	Angiotensin receptor subtypes regulate adipose tissue renewal and remodelling. FEBS Journal, 2020, 287, 1076-1087.	2.2	22
13	Mesenchymal Stromal Cells as Critical Contributors to Tissue Regeneration. Frontiers in Cell and Developmental Biology, 2020, 8, 576176.	1.8	68
14	Cell Sheets from Adipose Tissue MSC Induce Healing of Pressure Ulcer and Prevent Fibrosis via Trigger Effects on Granulation Tissue Growth and Vascularization. International Journal of Molecular Sciences, 2020, 21, 5567.	1.8	18
15	Therapeutic Angiogenesis by a â€œDynamic Duoâ€: Simultaneous Expression of HGF and VEGF165 by Novel Bicistronic Plasmid Restores Blood Flow in Ischemic Skeletal Muscle. Pharmaceutics, 2020, 12, 1231.	2.0	7
16	A Bicistronic Plasmid Encoding Brain-Derived Neurotrophic Factor and Urokinase Plasminogen Activator Stimulates Peripheral Nerve Regeneration After Injury. Journal of Pharmacology and Experimental Therapeutics, 2020, 372, 248-255.	1.3	11
17	Functional Heterogeneity of Protein Kinase A Activation in Multipotent Stromal Cells. International Journal of Molecular Sciences, 2020, 21, 4442.	1.8	12
18	Downregulation of uPAR promotes urokinase translocation into the nucleus and epithelial to mesenchymal transition in neuroblastoma. Journal of Cellular Physiology, 2020, 235, 6268-6286.	2.0	26

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19	Different spatiotemporal organization of GPI-anchored T-cadherin in response to low-density lipoprotein and adiponectin. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 129414.	1.1	10
20	Oligonucleotide Microarrays Identified Potential Regulatory Genes Related to Early Outward Arterial Remodeling Induced by Tissue Plasminogen Activator. Frontiers in Physiology, 2019, 10, 493.	1.3	2
21	Unveiling Mesenchymal Stromal Cellsâ€™ Organizing Function in Regeneration. International Journal of Molecular Sciences, 2019, 20, 823.	1.8	34
22	A magic kick for regeneration: role of mesenchymal stromal cell secretome in spermatogonial stem cell niche recovery. Stem Cell Research and Therapy, 2019, 10, 342.	2.4	22
23	Blood Circulating Exosomes Contain Distinguishable Fractions of Free and Cell-Surface-Associated Vesicles. Current Molecular Medicine, 2019, 19, 273-285.	0.6	27
24	Genetic Variants Associated with the Development of Type 2 Diabetes: Approaches to Their Identification. Vestnik Rossiiskoi Akademii Meditsinskikh Nauk, 2019, 74, 44-53.	0.2	0
25	Coupling of P2Y receptors to Ca2+ mobilization in mesenchymal stromal cells from the human adipose tissue. Cell Calcium, 2018, 71, 1-14.	1.1	20
26	Noradrenaline Sensitivity Is Severely Impaired in Immortalized Adipose-Derived Mesenchymal Stem Cell Line. International Journal of Molecular Sciences, 2018, 19, 3712.	1.8	7
27	Type 2 diabetes and metabolic syndrome: identification of the molecular mechanisms, key signaling pathways and transcription factors aimed to reveal new therapeutical targets. Diabetes Mellitus, 2018, 21, 364-375.	0.5	18
28	CRISPR/Cas9 nickase mediated targeting of urokinase receptor gene inhibits neuroblastoma cell proliferation. Oncotarget, 2018, 9, 29414-29430.	0.8	24
29	On new regulation of cell therapy and regenerative medicine in the Russian Federation. Cytotherapy, 2017, 19, 1125-1126.	0.3	2
30	Prep1 prevents premature adipogenesis of mesenchymal progenitors. Scientific Reports, 2017, 7, 15573.	1.6	13
31	Local angiotensin II promotes adipogenic differentiation of human adipose tissue mesenchymal stem cells through type 2 angiotensin receptor. Stem Cell Research, 2017, 25, 115-122.	0.3	27
32	Molecular Mechanisms of Immunomodulation Properties of Mesenchymal Stromal Cells: A New Insight into the Role of ICAM-1. Stem Cells International, 2017, 2017, 1-15.	1.2	51
33	Activation of Î²-adrenergic receptors is required for elevated Î±1A-adrenoreceptors expression and signaling in mesenchymal stromal cells. Scientific Reports, 2016, 6, 32835.	1.6	39
34	Urokinase-type Plasminogen Activator (uPA) Promotes Angiogenesis by Attenuating Proline-rich Homeodomain Protein (PRH) Transcription Factor Activity and De-repressing Vascular Endothelial Growth Factor (VEGF) Receptor Expression. Journal of Biological Chemistry, 2016, 291, 15029-15045.	1.6	58
35	The transcription factor Prep1 controls hepatic insulin sensitivity and gluconeogenesis by targeting nuclear localization of FOXO1. Biochemical and Biophysical Research Communications, 2016, 481, 182-188.	1.0	5
36	Urokinase and urokinase receptor participate in regulation of neuronal migration, axon growth and branching. European Journal of Cell Biology, 2016, 95, 295-310.	1.6	42

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37	Nox4 and Duox1/2 Mediate Redox Activation of Mesenchymal Cell Migration by PDGF. PLoS ONE, 2016, 11, e0154157.	1.1	25
38	UKâ€"Russia Researcher Links Workshop: extracellular vesicles â€" mechanisms of biogenesis and roles in disease pathogenesis, M.V. Lomonosov Moscow State University, Moscow, Russia, 1â€"5ÂMarch 2015. Journal of Extracellular Vesicles, 2015, 4, 28094.	5.5	1
39	ChIP-Seq and RNA-Seq Analyses Identify Components of the Wnt and Fgf Signaling Pathways as Prep1 Target Genes in Mouse Embryonic Stem Cells. PLoS ONE, 2015, 10, e0122518.	1.1	24
40	miR-92a regulates angiogenic activity of adipose-derived mesenchymal stromal cells. Experimental Cell Research, 2015, 339, 61-66.	1.2	36
41	Luteal phase defect is associated with impaired VEGF mRNA expression in the secretory phase endometrium. Reproductive Biology, 2015, 15, 65-68.	0.9	11
42	T-Cadherin Expression in Melanoma Cells Stimulates Stromal Cell Recruitment and Invasion by Regulating the Expression of Chemokines, Integrins and Adhesion Molecules. Cancers, 2015, 7, 1349-1370.	1.7	13
43	Disturbed angiogenic activity of adipose-derived stromal cells obtained from patients with coronary artery disease and diabetes mellitus type 2. Journal of Translational Medicine, 2014, 12, 337.	1.8	73
44	Novel mechanism regulating endothelial permeability via T-cadherin-dependent VE-cadherin phosphorylation and clathrin-mediated endocytosis. Molecular and Cellular Biochemistry, 2014, 387, 39-53.	1.4	23
45	Functional expression of adrenoreceptors in mesenchymal stromal cells derived from the human adipose tissue. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1899-1908.	1.9	35
46	Plasma urokinase antigen and C-reactive protein predict angina recurrence after coronary angioplasty. Heart and Vessels, 2014, 29, 611-618.	0.5	2
47	Adipose-Derived Mesenchymal Stromal Cells From Aged Patients With Coronary Artery Disease Keep Mesenchymal Stromal Cell Properties but Exhibit Characteristics of Aging and Have Impaired Angiogenic Potential. Stem Cells Translational Medicine, 2014, 3, 32-41.	1.6	104
48	Transplantation of modified human adipose derived stromal cells expressing VEGF165 results in more efficient angiogenic response in ischemic skeletal muscle. Journal of Translational Medicine, 2013, 11, 138.	1.8	57
49	Analysis of the DNA-Binding Profile and Function of TALE Homeoproteins Reveals Their Specialization and Specific Interactions with Hox Genes/Proteins. Cell Reports, 2013, 3, 1321-1333.	2.9	125
50	In Vitro Neuronal Induction of Adipose-Derived Stem Cells and their Fate after Transplantation into Injured Mouse Brain. Current Medicinal Chemistry, 2012, 19, 5170-5177.	1.2	32
51	Combined Transfer of Human VEGF165 and HGF Genes Renders Potent Angiogenic Effect in Ischemic Skeletal Muscle. PLoS ONE, 2012, 7, e38776.	1.1	43
52	Fibulin-5 binds urokinase-type plasminogen activator and mediates urokinase-stimulated Î²1-integrin-dependent cell migration. Biochemical Journal, 2012, 443, 491-503.	1.7	25
53	Does Cellular Hydrogen Peroxide Diffuse or Act Locally?. Antioxidants and Redox Signaling, 2011, 14, 1-7.	2.5	137
54	Adipose-Derived Stem Cells Stimulate Regeneration of Peripheral Nerves: BDNF Secreted by These Cells Promotes Nerve Healing and Axon Growth De Novo. PLoS ONE, 2011, 6, e17899.	1.1	248

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55	Tâ€cadherin modulates endothelial barrier function. Journal of Cellular Physiology, 2010, 223, 94-102.	2.0	20
56	Diabetes mellitus, cachexia and obesity in heart failure: rationale and design of the Studies Investigating Coâ€morbidities Aggravating Heart Failure (SICAâ€HF). Journal of Cachexia, Sarcopenia and Muscle, 2010, 1, 187-194.	2.9	75
57	Oligonucleotide Microarrays Reveal Regulated Genes Related to Inward Arterial Remodeling Induced by Urokinase Plasminogen Activator. Journal of Vascular Research, 2009, 46, 177-187.	0.6	17
58	T-cadherin is located in the nucleus and centrosomes in endothelial cells. American Journal of Physiology - Cell Physiology, 2009, 297, C1168-C1177.	2.1	17
59	Opposite effects of native and oxidized lipoproteins on the activity of secretory phospholipase A2 group IIA. Prostaglandins and Other Lipid Mediators, 2009, 90, 37-41.	1.0	8
60	An attempt to prevent senescence: A mitochondrial approach. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 437-461.	0.5	359
61	T-cadherin activates Rac1 and Cdc42 and changes endothelial permeability. Biochemistry (Moscow), 2009, 74, 362-370.	0.7	10
62	Adipose Stromal Cells Stimulate Angiogenesis via Promoting Progenitor Cell Differentiation, Secretion of Angiogenic Factors, and Enhancing Vessel Maturation. Tissue Engineering - Part A, 2009, 15, 2039-2050.	1.6	184
63	Kinetic approach for evaluation of total antioxidant activity. Talanta, 2009, 80, 749-753.	2.9	28
64	Regulation of arterial remodeling and angiogenesis by urokinase-type plasminogen activatorThis article is one of a selection of papers from the NATO Advanced Research Workshop on Translational Knowledge for Heart Health (published in part 2 of a 2-part Special Issue).. Canadian Journal of Physiology and Pharmacology, 2009, 87, 231-251.	0.7	52
65	Nuclear translocation of urokinase-type plasminogen activator. Blood, 2008, 112, 100-110.	0.6	63
66	Urokinase Gene Transfer Augments Angiogenesis in Ischemic Skeletal and Myocardial Muscle. Molecular Therapy, 2007, 15, 1939-1946.	3.7	53
67	T-cadherin suppresses angiogenesis in vivo by inhibiting migration of endothelial cells. Angiogenesis, 2007, 10, 183-195.	3.7	55
68	Interleukin-18 and Macrophage Migration Inhibitory Factor Are Associated With Increased Carotid Intimaâ€"Media Thickening. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 295-300.	1.1	47
69	Urokinase Plasminogen Activator in Injured Adventitia Increases the Number of Myofibroblasts and Augments Early Proliferation. Journal of Vascular Research, 2006, 43, 437-446.	0.6	20
70	Urokinase Induces Matrix Metalloproteinase-9/Gelatinase B Expression in THP-1 Monocytes via ERK1/2 and Cytosolic Phospholipase A₂ Activation and Eicosanoid Production. Journal of Vascular Research, 2006, 43, 482-490.	0.6	21
71	Urokinase Plasminogen Activator Stimulates Vascular Smooth Muscle Cell Proliferation Via Redox-Dependent Pathways. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 801-807.	1.1	72
72	The catalytically active secretory phospholipase A2 type IIA is involved in restenosis development after PTCA in human coronary arteries and generation of atherogenic LDL. Molecular and Cellular Biochemistry, 2005, 270, 107-113.	1.4	10

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73	T-cadherin GPI-anchor is insufficient for apical targeting in MDCK cells. Biochemical and Biophysical Research Communications, 2005, 329, 624-631.	1.0	8
74	Unique genetic profile of hereditary hemochromatosis in Russians: High frequency of C282Y mutation in population, but not in patients. Blood Cells, Molecules, and Diseases, 2005, 35, 182-188.	0.6	21
75	Contrasting Effects of Urokinase and Tissue-Type Plasminogen Activators on Neointima Formation and Vessel Remodelling after Arterial Injury. Journal of Vascular Research, 2004, 41, 268-276.	0.6	30
76	Plasminogen Activator Expression Correlates with Genetic Differences in Vascular Remodeling. Journal of Vascular Research, 2004, 41, 481-490.	0.6	22
77	Polyelectrolyte Nanoparticles Mediate Vascular Gene Delivery. Pharmaceutical Research, 2004, 21, 1656-1661.	1.7	30
78	Cell adhesion molecule T-cadherin regulates vascular cell adhesion, phenotype and motility. Experimental Cell Research, 2004, 293, 207-218.	1.2	79
79	Polarisation of T-cadherin to the leading edge of migrating vascular cells in vitro: a function in vascular cell motility?. Histochemistry and Cell Biology, 2003, 120, 353-360.	0.8	43
80	Cyclic AMP-Mobilizing Agents and Glucocorticoids Modulate Human Smooth Muscle Cell Migration. American Journal of Respiratory Cell and Molecular Biology, 2003, 29, 19-27.	1.4	119
81	Urokinase upregulates matrix metalloproteinase-9 expression in THP-1 monocytes via gene transcription and protein synthesis. Biochemical Journal, 2002, 367, 833-839.	1.7	49
82	Activation of p38 MAP-Kinase and Caldesmon Phosphorylation Are Essential for Urokinase-Induced Human Smooth Muscle Cell Migration. Biological Chemistry, 2002, 383, 115-26.	1.2	60
83	Expression of adhesion molecule T-cadherin is increased during neointima formation in experimental restenosis. Histochemistry and Cell Biology, 2002, 118, 281-290.	0.8	69
84	Urokinase plasminogen activator augments cell proliferation and neointima formation in injured arteries via proteolytic mechanisms. Atherosclerosis, 2001, 159, 297-306.	0.4	44
85	Plasmin-dependent elimination of the growth-factor-like domain in urokinase causes its rapid cellular uptake and degradation. Biochemical Journal, 2001, 355, 639-645.	1.7	17
86	Monocyte Integrin Expression And Monocyte-Platelet Complex Formation In Humans With Coronary Restenosis. Clinical and Experimental Pharmacology and Physiology, 2001, 28, 804-808.	0.9	14
87	Urokinase plasminogen activator enhances neointima growth and reduces lumen size in injured carotid arteries. Journal of Hypertension, 2000, 18, 1065-1069.	0.3	36
88	The Chemotactic Action of Urokinase on Smooth Muscle Cells Is Dependent on Its Kringle Domain. Journal of Biological Chemistry, 2000, 275, 16450-16458.	1.6	108
89	UROKINASE PLASMINOGEN ACTIVATOR SYSTEM IN HUMANS WITH STABLE CORONARY ARTERY DISEASE. Clinical and Experimental Pharmacology and Physiology, 1999, 26, 354-357.	0.9	10
90	Urokinase plasminogen activator induces human smooth muscle cell migration and proliferation via distinct receptor-dependent and proteolysis-dependent mechanisms. Molecular and Cellular Biochemistry, 1999, 195, 199-206.	1.4	42

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91	LDL binds to surface-expressed human T-cadherin in transfected HEK293 cells and influences homophilic adhesive interactions. FEBS Letters, 1999, 463, 29-34.	1.3	24
92	Identification of 130 kDa cell surface LDL-binding protein from smooth muscle cells as a partially processed T-cadherin precursor. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1416, 155-160.	1.4	20
93	Heterotrimeric Gi protein is associated with the inositol 1,4,5-trisphosphate receptor complex and modulates calcium flux. Cell Calcium, 1998, 23, 281-289.	1.1	18
94	Identification of an atypical lipoprotein-binding protein from human aortic smooth muscle as T-cadherin. FEBS Letters, 1998, 421, 208-212.	1.3	43
95	Density- and proliferation status-dependent expression of T-cadherin, a novel lipoprotein-binding glycoprotein: a function in negative regulation of smooth muscle cell growth?. FEBS Letters, 1998, 434, 183-187.	1.3	35
96	Characteristics of Smooth Muscle Cell Lipoprotein Binding Proteins (p105/p130) as T-Cadherin and Regulation by Positive and Negative Growth Regulators. Biochemical and Biophysical Research Communications, 1998, 246, 489-494.	1.0	25
97	Involvement of Protein Kinase C in Hypoxia-Induced Desensitization of the Î²-Adrenergic System in Human Endothelial Cells. Biochemical and Biophysical Research Communications, 1996, 222, 753-758.	1.0	11
98	Ligand selectivity of 105 kDa and 130 kDa lipoprotein-binding proteins in vascular-smooth-muscle-cell membranes is unique. Biochemical Journal, 1996, 317, 297-304.	1.7	27
99	REGULATION AND ROLE OF UROKINASE PLASMINOGEN ACTIVATOR IN VASCULAR REMODELLING. Clinical and Experimental Pharmacology and Physiology, 1996, 23, 759-765.	0.9	54
100	Stretch affects phenotype and proliferation of vascular smooth muscle cells. Molecular and Cellular Biochemistry, 1995, 144, 131-139.	1.4	175
101	Blockade of receptor-operated calcium channels by mibefradil (Ro 40-5967): Effects on intracellular calcium and platelet aggregation. Cardiovascular Drugs and Therapy, 1995, 9, 815-821.	1.3	15
102	Low- and High-Density Lipoproteins as Mitogenic Factors for Vascular Smooth Muscle Cells: Individual, Additive and Synergistic Effects. Journal of Vascular Research, 1995, 32, 328-338.	0.6	22
103	Cellular Signalling by Lipoproteins in Cultured Smooth Muscle Cells from Spontaneously Hypertensive Rats. Journal of Vascular Research, 1993, 30, 169-180.	0.6	24
104	Characteristics and regulation of ganglioside-induced elevation of free cytoplasmic Ca2+ in human blood platelets. Lipids and Lipid Metabolism, 1992, 1127, 221-225.	2.6	11
105	Phosphoinositide and calcium signalling responses in smooth muscle cells: Comparison between lipoproteins, Ang II, and PDGF. Biochemical and Biophysical Research Communications, 1992, 188, 1295-1304.	1.0	41
106	The 65-kDa protein from pig heart A new substrate forClostridium botulinumADP-ribosyltransferase (exoenzyme C3). FEBS Letters, 1991, 293, 59-61.	1.3	1
107	Apparent activation of rabbit lung membrane adenylate cyclase by cytosolic proteins possessing adenylate kinase activity. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1091, 213-221.	1.9	1
108	Epinephrine potentiates activation of human platelets by low density lipoproteins. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1991, 1097, 123-127.	1.8	11

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109	Stimulation of non-selective cation channels providing Ca2+ influx into platelets by platelet-activating factor and other aggregation inducers. FEBS Journal, 1991, 198, 267-273.	0.2	27
110	Involvement of pertussis-toxin-sensitive G protein in muscarinic-receptor-mediated inhibition of K+-activated 4-nitrophenylphosphatase activity of cardiac sarcolemma. FEBS Journal, 1990, 194, 155-160.	0.2	8
111	Vascular Signal Transduction and Atherosclerosis. Annals of the New York Academy of Sciences, 1990, 598, 167-181.	1.8	24
112	Relationship between the inhibition of receptor-induced increase in cytosolic free calcium concentration and the vasodilator effects of nitrates in patients with congestive heart failure. International Journal of Cardiology, 1990, 26, 175-184.	0.8	26
113	Interleukin-2- and phytohemagglutinin-activated proliferation of human T-lymphocytes is accompanied by stimulation of phosphoinositide turnover. Biochimica Et Biophysica Acta - Molecular Cell Research, 1989, 1014, 173-177.	1.9	4
114	Inhibition by Pertussis Toxin of Guanyl Nucleotides Exchange on Transducin in Bovine Rod Cell Membranes. Membrane Biochemistry, 1989, 8, 115-126.	0.6	1
115	Involvement of Ni protein in the functional coupling of the atrial natriuretic factor (ANF) receptor to adenylate cyclase in rat lung plasma membranes. FEBS Journal, 1988, 174, 531-535.	0.2	23
116	Atherogenic effects of beta blockers on cells cultured from normal and atherosclerotic aorta. American Journal of Cardiology, 1988, 61, 1116-1117.	0.7	17
117	Hormonal Sensitivity of Adenylate Cyclase Incorporated in Proteoliposomes. Membrane Biochemistry, 1987, 7, 41-54.	0.6	1
118	Platelet Calcium-Linked Abnormalities in Essential Hypertension. Annals of the New York Academy of Sciences, 1986, 488, 252-265.	1.8	11
119	Guanine-nucleotide-dependent inhibition of adenylate cyclase of rabbit heart by glucagon. FEBS Journal, 1984, 142, 323-328.	0.2	8
120	Book review on "Immunology" (2021) authored by academician of the Russian Academy of Sciences R.M. Khaitov. Russian Journal of Allergy, 0, , .	0.1	0