Egor Y Plotnikov

List of Publications by Year
in descending order

125 papers	5,998 citations	136950 32 h-index	79698 73 g-index
130 all docs	130 docs citations	130 times ranked	7943 citing authors

#	Article	IF	Citations
1	Gut Microbiota as a Source of Uremic Toxins. International Journal of Molecular Sciences, 2022, 23, 483.	4.1	19
2	Is the Mitochondrial Membrane Potential (âˆ†Î¨) Correctly Assessed? Intracellular and Intramitochondrial Modifications of the âˆ†Î¨ Probe, Rhodamine 123. International Journal of Molecular Sciences, 2022, 23, 482.	4.1	15
3	Macrophage polarization in hypoxia and ischemia/reperfusion: Insights into the role of energetic metabolism. Experimental Biology and Medicine, 2022, 247, 958-971.	2.4	9
4	Dietary restriction modulates mitochondrial DNA damage and oxylipin profile in aged rats. FEBS Journal, 2022, 289, 5697-5713.	4.7	4
5	Effects of Traumatic Brain Injury on the Gut Microbiota Composition and Serum Amino Acid Profile in Rats. Cells, 2022, 11, 1409.	4.1	17
6	Hormonal Regulation of Renal Fibrosis. Life, 2022, 12, 737.	2.4	4
7	Size-Dependent Cytoprotective Effects of Selenium Nanoparticles during Oxygen-Glucose Deprivation in Brain Cortical Cells. International Journal of Molecular Sciences, 2022, 23, 7464.	4.1	18
8	Do Extracellular Vesicles Derived from Mesenchymal Stem Cells Contain Functional Mitochondria?. International Journal of Molecular Sciences, 2022, 23, 7408.	4.1	19
9	Age-Related Changes in Bone-Marrow Mesenchymal Stem Cells. Cells, 2021, 10, 1273.	4.1	19
10	Dietary Restriction for Kidney Protection: Decline in Nephroprotective Mechanisms During Aging. Frontiers in Physiology, 2021, 12, 699490.	2.8	7
11	Editorial: Mitochondria in Renal Health and Disease. Frontiers in Physiology, 2021, 12, 707175.	2.8	1
12	Mechanisms Underlying the Protective Effect of the Peroxiredoxin-6 Are Mediated via the Protection of Astrocytes during Ischemia/Reoxygenation. International Journal of Molecular Sciences, 2021, 22, 8805.	4.1	19
13	Neuroprotective Potential of Mild Uncoupling in Mitochondria. Pros and Cons. Brain Sciences, 2021, 11, 1050.	2.3	16
14	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (edition	9.1	1,430
15	Ischemic Preconditioning of the Kidney. Bulletin of Experimental Biology and Medicine, 2021, 171, 567-571.	0.8	3
16	Effects of Panthenol and N-Acetylcysteine on Changes in the Redox State of Brain Mitochondria under Oxidative Stress In Vitro. Antioxidants, 2021, 10, 1699.	5.1	8
17	The Mechanisms Underlying the Protective Action of Selenium Nanoparticles against Ischemia/Reoxygenation Are Mediated by the Activation of the Ca2+ Signaling System of Astrocytes and Reactive Astrogliosis. International Journal of Molecular Sciences, 2021, 22, 12825.	4.1	18
18	Editorial: Mitochondria in Renal Health and Disease, Volume II. Frontiers in Physiology, 2021, 12, 818421.	2.8	0

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19	The Protective Mechanism of Deuterated Linoleic Acid Involves the Activation of the Ca2+ Signaling System of Astrocytes in Ischemia In Vitro. International Journal of Molecular Sciences, 2021, 22, 13216.	4.1	13
20	Bioenergetics of the Fibrosis. Biochemistry (Moscow), 2021, 86, 1599-1606.	1.5	2
21	Loss of ischemic tolerance with age: can we protect an old kidney. Innovation in Aging, 2021, 5, 685-685.	0.1	0
22	Effects of Recombinant Spidroin rS1/9 on Brain Neural Progenitors After Photothrombosis-Induced Ischemia. Frontiers in Cell and Developmental Biology, 2020, 8, 823.	3.7	8
23	P0017ESTIMATION OF KIDNEY MITOCHONDRIA TOLERANCE VIA FLUORESCENCE MICROSCOPY. Nephrology Dialysis Transplantation, 2020, 35, .	0.7	0
24	Mitochondria in the Nuclei of Rat Myocardial Cells. Cells, 2020, 9, 712.	4.1	8
25	A Combination of Kidney Ischemia and Injection of Isolated Mitochondria Leads to Activation of Inflammation and Increase in Mortality Rate in Rats. Bulletin of Experimental Biology and Medicine, 2020, 169, 213-217.	0.8	4
26	Microbiome-Metabolome Signature of Acute Kidney Injury. Metabolites, 2020, 10, 142.	2.9	29
27	Nonphosphorylating Oxidation in Mitochondria and Related Processes. Biochemistry (Moscow), 2020, 85, 1570-1577.	1.5	7
28	Targeting Inflammation and Oxidative Stress as a Therapy for Ischemic Kidney Injury. Biochemistry (Moscow), 2020, 85, 1591-1602.	1.5	18
29	Resemblance and differences in dietary restriction nephroprotective mechanisms in young and old rats. Aging, 2020, 12, 18693-18715.	3.1	12
30	Lost or Forgotten: The nuclear cathepsin protein isoforms in cancer. Cancer Letters, 2019, 462, 43-50.	7.2	24
31	Zwitterionic Protonophore Derived from 2-(2-Hydroxyaryl)alkenylphosphonium as an Uncoupler of Oxidative Phosphorylation. Bioconjugate Chemistry, 2019, 30, 2435-2443.	3.6	14
32	Pros and Cons of Use of Mitochondria-Targeted Antioxidants. Antioxidants, 2019, 8, 316.	5.1	20
33	Mitochondria as a Source and a Target for Uremic Toxins. International Journal of Molecular Sciences, 2019, 20, 3094.	4.1	39
34	Mitochondrial Damage and Mitochondria-Targeted Antioxidant Protection in LPS-Induced Acute Kidney Injury. Antioxidants, 2019, 8, 176.	5.1	51
35	Effect of MSCs and MSC-Derived Extracellular Vesicles on Human Blood Coagulation. Cells, 2019, 8, 258.	4.1	91
36	Lessons from the Discovery of Mitochondrial Fragmentation (Fission): A Review and Update. Cells, 2019, 8, 175.	4.1	65

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37	Rapamycin Is Not Protective against Ischemic and Cisplatin-Induced Kidney Injury. Biochemistry (Moscow), 2019, 84, 1502-1512.	1.5	9
38	Kidney Cells Regeneration: Dedifferentiation of Tubular Epithelium, Resident Stem Cells and Possible Niches for Renal Progenitors. International Journal of Molecular Sciences, 2019, 20, 6326.	4.1	33
39	Mitochondria-Associated Matrix Metalloproteinases 2 and 9 in Acute Renal Pathologies. Bulletin of Experimental Biology and Medicine, 2019, 166, 334-338.	0.8	6
40	Effect of Silk Fibroin on Neuroregeneration After Traumatic Brain Injury. Neurochemical Research, 2019, 44, 2261-2272.	3.3	21
41	Functional Significance of the Mitochondrial Membrane Potential. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2018, 12, 20-26.	0.6	28
42	Mitochondrial membrane potential. Analytical Biochemistry, 2018, 552, 50-59.	2.4	1,161
43	FP237EFFECTS OF THE AGE ON ACUTE KIDNEY INJURY IN NEONATAL AND ADULT RATS. Nephrology Dialysis Transplantation, 2018, 33, i109-i109.	0.7	0
44	FP037INFLUENCE OF INFLAMMATION ON MMSC:ANTI-INFLAMMATORY PRIMING OR SWITCHING TO INFLAMMATORY PHENOTYPE. Nephrology Dialysis Transplantation, 2018, 33, i59-i60.	0.7	0
45	Pregnancy protects the kidney from acute ischemic injury. Scientific Reports, 2018, 8, 14534.	3.3	17
46	Mechanisms of Age-Dependent Loss of Dietary Restriction Protective Effects in Acute Kidney Injury. Cells, 2018, 7, 178.	4.1	20
47	Aged kidney: can we protect it? Autophagy, mitochondria and mechanisms of ischemic preconditioning. Cell Cycle, 2018, 17, 1291-1309.	2.6	21
48	Comparative Study of the Severity of Renal Damage in Newborn and Adult Rats under Conditions of Ischemia/Reperfusion and Endotoxin Administration. Bulletin of Experimental Biology and Medicine, 2018, 165, 189-194.	0.8	3
49	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone in a Rat Model of Neonatal Hypoxicâ€"Ischemic Brain Injury. Molecules, 2018, 23, 1871.	3.8	35
50	Miro1 Enhances Mitochondria Transfer from Multipotent Mesenchymal Stem Cells (MMSC) to Neural Cells and Improves the Efficacy of Cell Recovery. Molecules, 2018, 23, 687.	3.8	130
51	Mechanisms of LPS-Induced Acute Kidney Injury in Neonatal and Adult Rats. Antioxidants, 2018, 7, 105.	5.1	35
52	Mitochondrial Aging: Is There a Mitochondrial Clock?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw184.	3.6	16
53	Intercellular Signalling Cross-Talk: To Kill, To Heal and To Rejuvenate. Heart Lung and Circulation, 2017, 26, 648-659.	0.4	24
54	Quantification of mitochondrial morphology in situ. Cell and Tissue Biology, 2017, 11, 51-58.	0.4	1

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55	The age-associated loss of ischemic preconditioning in the kidney is accompanied by mitochondrial dysfunction, increased protein acetylation and decreased autophagy. Scientific Reports, 2017, 7, 44430.	3.3	35
56	Effect of anesthetics on efficiency of remote ischemic preconditioning. Biochemistry (Moscow), 2017, 82, 1006-1016.	1.5	12
57	The Influence of Proinflammatory Factors on the Neuroprotective Efficiency of Multipotent Mesenchymal Stromal Cells in Traumatic Brain Injury. Bulletin of Experimental Biology and Medicine, 2017, 163, 528-534.	0.8	4
58	The role of oxidative stress in acute renal injury of newborn rats exposed to hypoxia and endotoxin. FEBS Journal, 2017, 284, 3069-3078.	4.7	18
59	Bacterial therapy and mitochondrial therapy. Biochemistry (Moscow), 2017, 82, 1549-1556.	1.5	5
60	Dysfunction of kidney endothelium after ischemia/reperfusion and its prevention by mitochondria-targeted antioxidant. Biochemistry (Moscow), 2016, 81, 1538-1548.	1.5	22
61	Changes in number of neurons, astrocytes and microglia in brain after ischemic stroke assessed by immunohistochemistry and immunoblotting. Cell and Tissue Biology, 2016, 10, 445-452.	0.4	2
62	Molecular and cellular interactions between mother and fetus. Pregnancy as a rejuvenating factor. Biochemistry (Moscow), 2016, 81, 1480-1487.	1.5	9
63	A long-linker conjugate of fluorescein and triphenylphosphonium as mitochondria-targeted uncoupler and fluorescent neuro- and nephroprotector. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2463-2473.	2.4	28
64	Mechanisms of inflammatory injury of renal tubular cells in a cellular model of pyelonephritis. Biochemistry (Moscow), 2016, 81, 1240-1250.	1.5	3
65	The Use of Technetium-99m for Intravital Tracing of Transplanted Multipotent Stromal Cells. Bulletin of Experimental Biology and Medicine, 2016, 162, 153-159.	0.8	6
66	Mitochondria as a target for neuroprotection. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 28-36.	0.6	2
67	Do mitochondria have an immune system?. Biochemistry (Moscow), 2016, 81, 1229-1236.	1.5	4
68	The role of myoglobin degradation in nephrotoxicity after rhabdomyolysis. Chemico-Biological Interactions, 2016, 256, 64-70.	4.0	32
69	Protection of Neurovascular Unit Cells with Lithium Chloride and Sodium Valproate Prevents Brain Damage in Neonatal Ischemia/Hypoxia. Bulletin of Experimental Biology and Medicine, 2016, 160, 313-318.	0.8	10
70	Prospects for using stem and progenitor cells in the therapy of consequences of neonatal hypoxic-ischemic encephalopathy. Akusherstvo I Ginekologiya (Russian Federation), 2016, 5_2016, 55-66.	0.3	1
71	Mechanisms of improving the neuroprotective effects of multipotent stromal cells after Co-culturing with neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2015, 9, 285-292.	0.6	0
72	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone and Thymoquinone in a Rat Model of Brain Ischemia/Reperfusion Injury. Molecules, 2015, 20, 14487-14503.	3.8	46

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73	FP184THE EFFECTS OF MITOCHONDRIA-TARGETED ANTIOXIDANT SKQR1 ON RENAL BLOOD FLOW DURING ISCHEMIA/REPERFUSION OF KIDNEY. Nephrology Dialysis Transplantation, 2015, 30, iii128-iii128.	0.7	0
74	Diseases and aging: Gender matters. Biochemistry (Moscow), 2015, 80, 1560-1570.	1.5	11
75	Specific issues of mitochondrial fragmentation (Fission). Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2015, 9, 278-284.	0.6	0
76	Intramitochondrial accumulation of cationic Atto520-biotin proceeds via voltage-dependent slow permeation through lipid membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1277-1284.	2.6	3
77	Magnetic resonance spectroscopy of the ischemic brain under lithium treatment. Link to mitochondrial disorders under stroke. Chemico-Biological Interactions, 2015, 237, 175-182.	4.0	23
78	Intercellular transfer of mitochondria. Biochemistry (Moscow), 2015, 80, 542-548.	1.5	24
79	Mitodiversity. Biochemistry (Moscow), 2015, 80, 532-541.	1.5	14
80	Intra-Arterial Administration of Multipotent Mesenchymal Stromal Cells Promotes Functional Recovery of the Brain After Traumatic Brain Injury. Bulletin of Experimental Biology and Medicine, 2015, 159, 528-533.	0.8	15
81	Improving the Post-Stroke Therapeutic Potency of Mesenchymal Multipotent Stromal Cells by Cocultivation With Cortical Neurons: The Role of Crosstalk Between Cells. Stem Cells Translational Medicine, 2015, 4, 1011-1020.	3.3	92
82	Kidney cell death in inflammation: The role of oxidative stress and mitochondria. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2014, 8, 103-110.	0.6	0
83	Microbiota and mitobiota. Putting an equal sign between mitochondria and bacteria. Biochemistry (Moscow), 2014, 79, 1017-1031.	1.5	39
84	A mitochondria-targeted protonophoric uncoupler derived from fluorescein. Chemical Communications, 2014, 50, 15366-15369.	4.1	41
85	A short-chain alkyl derivative of Rhodamine 19 acts as a mild uncoupler of mitochondria and a neuroprotector. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1739-1747.	1.0	34
86	The Mitochondrion as a Key Regulator of Ischaemic Tolerance and Injury. Heart Lung and Circulation, 2014, 23, 897-904.	0.4	40
87	Lithium salts â€" Simple but magic. Biochemistry (Moscow), 2014, 79, 740-749.	1.5	24
88	Neuroprotective effect of glutamate-substituted analog of gramicidin A is mediated by the uncoupling of mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3434-3442.	2.4	24
89	Role of oxidative stress and mitochondria in onset of urinary bladder dysfunction under acute urine retention. Biochemistry (Moscow), 2013, 78, 542-548.	1.5	13
90	Perspectives of mitochondrial medicine. Biochemistry (Moscow), 2013, 78, 979-990.	1.5	20

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91	Inflammatory pre-conditioning of mesenchymal multipotent stromalÂcells improves their immunomodulatory potency in acute pyelonephritis in rats. Cytotherapy, 2013, 15, 679-689.	0.7	14
92	Nephroprotective effect of GSK-3Î² inhibition by lithium ions and Î´-opioid receptor agonist dalargin on gentamicin-induced nephrotoxicity. Toxicology Letters, 2013, 220, 303-308.	0.8	31
93	Protective effect of mitochondria-targeted antioxidants in an acute bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3100-8.	7.1	81
94	Methods of Detection of Mesenchymal Stem Cells in the Kidneys during Therapy of Experimental Renal Pathologies. Bulletin of Experimental Biology and Medicine, 2012, 154, 145-151.	0.8	3
95	Mild uncoupling of respiration and phosphorylation as a mechanism providing nephro- and neuroprotective effects of penetrating cations of the SkQ family. Biochemistry (Moscow), 2012, 77, 1029-1037.	1.5	52
96	N-Terminally Glutamate-Substituted Analogue of Gramicidin A as Protonophore and Selective Mitochondrial Uncoupler. PLoS ONE, 2012, 7, e41919.	2.5	16
97	The phenoptosis problem: What is causing the death of an organism? Lessons from acute kidney injury. Biochemistry (Moscow), 2012, 77, 742-753.	1.5	24
98	Mitochondria-targeted antioxidant SkQR1 ameliorates gentamycin-induced renal failure and hearing loss. Biochemistry (Moscow), 2012, 77, 666-670.	1.5	34
99	The Mitochondria-Targeted Antioxidants and Remote Kidney Preconditioning Ameliorate Brain Damage through Kidney-to-Brain Cross-Talk. PLoS ONE, 2012, 7, e51553.	2.5	43
100	Mechanisms of nephroprotective effect of mitochondria-targeted antioxidants under rhabdomyolysis and ischemia/reperfusion. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 77-86.	3.8	104
101	Mitochondrial-Targeted Plastoquinone Derivatives. Effect on Senescence and Acute Age-Related Pathologies. Current Drug Targets, 2011, 12, 800-826.	2.1	147
102	Human Induced Pluripotent Stem Cells Derived from Fetal Neural Stem Cells Successfully Undergo Directed Differentiation into Cartilage. Stem Cells and Development, 2011, 20, 1099-1112.	2.1	82
103	Inhibition of GSK-3Î² Decreases the Ischemia-Induced Death of Renal Cells. Bulletin of Experimental Biology and Medicine, 2010, 149, 303-307.	0.8	11
104	Evaluation of neuroprotective abilities of the novel mitochondria-targeted antioxidants. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 82.	1.0	0
105	Cytoplasm and organelle transfer between mesenchymal multipotent stromal cells and renal tubular cells in co-culture. Experimental Cell Research, 2010, 316, 2447-2455.	2.6	136
106	New-generation Skulachev ions exhibiting nephroprotective and neuroprotective properties. Biochemistry (Moscow), 2010, 75, 145-150.	1.5	51
107	Morphological Changes in the Kidneys of Rats with Postischemic Acute Renal Failure after Intrarenal Administration of Fetal Mesenchymal Stem Cells from Human Bone Marrow. Bulletin of Experimental Biology and Medicine, 2009, 147, 113-119.	0.8	4
108	Myoglobin causes oxidative stress, increase of NO production and dysfunction of kidney's mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 796-803.	3.8	104

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109	Effect of transitory glucose deprivation on mitochondrial structure and functions in cultured cerebellar granule neurons. Neuroscience Letters, 2009, 461, 140-144.	2.1	20
110	Effect of Xenotransplantation of Cell Cultures Enriched with Stem and Progenitor Cells on Hormonal Profile of Rats with Abdominal Cryptorchism. Bulletin of Experimental Biology and Medicine, 2008, 146, 517-521.	0.8	0
111	Heterogeneity of Mitochondrial Potential as a Marker for Isolation of Pure Cardiomyoblast Population. Bulletin of Experimental Biology and Medicine, 2008, 146, 506-511.	0.8	9
112	Mitochondrial free radical production induced by glucose deprivation in cerebellar granule neurons. Biochemistry (Moscow), 2008, 73, 149-155.	1.5	29
113	Role of acidosis, NMDA receptors, and acid-sensitive ion channel 1a (ASIC1a) in neuronal death induced by ischemia. Biochemistry (Moscow), 2008, 73, 1171-1175.	1.5	35
114	Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 2. Treatment of some ROS- and Age-related diseases (heart arrhythmia, heart infarctions,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	62
115	Interrelations of mitochondrial fragmentation and cell death under ischemia/reoxygenation and UVâ€irradiation: Protective effects of SkQ1, lithium ions and insulin. FEBS Letters, 2008, 582, 3117-3124.	2.8	53
116	Cellâ€toâ€cell crossâ€talk between mesenchymal stem cells and cardiomyocytes in coâ€culture. Journal of Cellular and Molecular Medicine, 2008, 12, 1622-1631.	3.6	196
117	S8.24 Cell-to-cell cross-talk between mesenchymal stem cells and cardiomyocytes. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S53-S54.	1.0	0
118	The role of mitochondria in oxidative and nitrosative stress during ischemia/reperfusion in the rat kidney. Kidney International, 2007, 72, 1493-1502.	5.2	172
119	The mitochondrion as Janus Bifrons. Biochemistry (Moscow), 2007, 72, 1115-1126.	1.5	47
120	Effects of ischemic and hypoxic preconditioning on the state of mitochondria and function of ischemic kidneys. Bulletin of Experimental Biology and Medicine, 2007, 143, 105-109.	0.8	8
121	Experimental intravenous cell therapy of acute and chronic renal failure. Bulletin of Experimental Biology and Medicine, 2007, 143, 160-165.	0.8	11
122	Functional activity of mitochondria in cultured neural precursor cells. Bulletin of Experimental Biology and Medicine, 2006, 141, 142-146.	0.8	12
123	Functional aftereffects of intraparenchymatous injection of human fetal stem and progenitor cells to rats with chronic and acute renal failure. Bulletin of Experimental Biology and Medicine, 2006, 141, 500-506.	0.8	12
124	Mitochondrial regulation of production of reactive oxygen species and nitrogen in rat cells of kidney during ischemia/reperfusion. Doklady Biochemistry and Biophysics, 2005, 400, 80-83.	0.9	1
125	Reactive oxygen and nitrogen species: Friends or foes?. Biochemistry (Moscow), 2005, 70, 215-221.	1.5	51