Mikhail F Alexeyev

List of Publications by Year
in descending order

58	2,250	331538 21	223716 46
papers	citations	h-index	g-index

58	58	58	3784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxidative stress induces degradation of mitochondrial DNA. Nucleic Acids Research, 2009, 37, 2539-2548.	6.5	426
2	The Maintenance of Mitochondrial DNA Integrity–Critical Analysis and Update. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012641-a012641.	2.3	341
3	Perinuclear Mitochondrial Clustering Creates an Oxidant-Rich Nuclear Domain Required for Hypoxia-Induced Transcription. Science Signaling, 2012, 5, ra47.	1.6	285
4	Is there more to aging than mitochondrial DNA and reactive oxygen species?. FEBS Journal, 2009, 276, 5768-5787.	2.2	153
5	Mitochondrial DNA and aging. Clinical Science, 2004, 107, 355-364.	1.8	123
6	Mitochondrial DNA damage triggers mitochondrial dysfunction and apoptosis in oxidant-challenged lung endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 288, L530-L535.	1.3	86
7	Aging: A mitochondrial DNA perspective, critical analysis and an update. World Journal of Experimental Medicine, 2014, 4, 46.	0.9	64
8	Mitochondrial DNA: A disposable genome?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1805-1809.	1.8	61
9	Persistent damage induces mitochondrial DNA degradation. DNA Repair, 2013, 12, 488-499.	1.3	52
10	Mitochondrial transcription in mammalian cells. Frontiers in Bioscience - Landmark, 2017, 22, 835-853.	3.0	43
11	Endonuclease III and endonuclease VIII conditionally targeted into mitochondria enhance mitochondrial DNA repair and cell survival following oxidative stress. Nucleic Acids Research, 2004, 32, 3240-3247.	6.5	41
12	TRPC4 Inactivation Confers a Survival Benefit in Severe Pulmonary Arterial Hypertension. American Journal of Pathology, 2013, 183, 1779-1788.	1.9	39
13	The expression of Exonuclease III from E. coli in mitochondria of breast cancer cells diminishes mitochondrial DNA repair capacity and cell survival after oxidative stress. DNA Repair, 2003, 2, 471-482.	1.3	38
14	A retro-lentiviral system for doxycycline-inducible gene expression and gene knockdown in cells with limited proliferative capacity. Molecular Biology Reports, 2010, 37, 1987-1991.	1.0	36
15	Endothelial hyperpermeability in severe pulmonary arterial hypertension: role of store-operated calcium entry. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L560-L569.	1.3	36
16	Mitochondrial DNA Ligase Is Dispensable for the Viability of Cultured Cells but Essential for mtDNA Maintenance. Journal of Biological Chemistry, 2013, 288, 26594-26605.	1.6	32
17	Pseudomonas aeruginosa exoenzymes U and Y induce a transmissible endothelial proteinopathy. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L337-L353.	1.3	32
18	Pseudomonas aeruginosa infection liberates transmissible, cytotoxic prion amyloids. FASEB Journal, 2017, 31, 2785-2796.	0.2	31

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19	Limited predictive value of TFAM in mitochondrial biogenesis. Mitochondrion, 2019, 49, 156-165.	1.6	29
20	Methods for Efficient Elimination of Mitochondrial DNA from Cultured Cells. PLoS ONE, 2016, 11, e0154684.	1.1	27
21	Virulent Pseudomonas aeruginosa infection converts antimicrobial amyloids into cytotoxic prions. FASEB Journal, 2020, 34, 9156-9179.	0.2	26
22	Sodium entry through endothelial store-operated calcium entry channels: regulation by Orai1. American Journal of Physiology - Cell Physiology, 2015, 308, C277-C288.	2.1	20
23	The â€œfastâ€•and the â€œslowâ€•modes of mitochondrial DNA degradation. Mitochondrial DNA, 2016, 27, 490-498.	0.6	19
24	Carbonic anhydrase IX is a critical determinant of pulmonary microvascular endothelial cell pH regulation and angiogenesis during acidosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L41-L51.	1.3	19
25	Exoenzyme Y Contributes to End-Organ Dysfunction Caused by Pseudomonas aeruginosa Pneumonia in Critically Ill Patients: An Exploratory Study. Toxins, 2020, 12, 369.	1.5	16
26	Extrinsic acidosis suppresses glycolysis and migration while increasing network formation in pulmonary microvascular endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L188-L201.	1.3	15
27	A method for mutagenesis of mouse mtDNA and a resource of mouse mtDNA mutations for modeling human pathological conditions. Nucleic Acids Research, 2015, 43, e62-e62.	6.5	14
28	N-cadherin coordinates AMP kinase-mediated lung vascular repair. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L71-L85.	1.3	14
29	The efficiency of the translesion synthesis across abasic sites by mitochondrial DNA polymerase is low in mitochondria of 3T3 cells. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 4390-4396.	0.7	14
30	S100A6 is a positive regulator of PPP5Câ€FKBP51â€dependent regulation of endothelial calcium signaling. FASEB Journal, 2020, 34, 3179-3196.	0.2	13
31	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L380-L390.	1.3	13
32	Î±_{1G} T-type calcium channel determines the angiogenic potential of pulmonary microvascular endothelial cells. American Journal of Physiology - Cell Physiology, 2019, 316, C353-C364.	2.1	12
33	Elimination of Mitochondrial DNA from Mammalian Cells. Current Protocols in Cell Biology, 2018, 78, 20.11.1-20.11.14.	2.3	11
34	Mutations in the passenger polypeptide can affect its partitioning between mitochondria and cytoplasm. Molecular Biology Reports, 2008, 35, 215-223.	1.0	10
35	Mitochondrial DNA: the common confusions. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2020, 31, 45-47.	0.7	9
36	Protective role of FKBP51Âin calcium entryâ€induced endothelial barrier disruption. Pulmonary Circulation, 2018, 8, 1-15.	0.8	6

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37	Presequence-Independent Mitochondrial Import of DNA Ligase Facilitates Establishment of Cell Lines with Reduced mtDNA Copy Number. PLoS ONE, 2016, 11, e0152705.	1.1	6
38	Quantification of mtDNA content in cultured cells by direct droplet digital PCR. Mitochondrion, 2021, 61, 102-113.	1.6	5
39	ExoU Induces Lung Endothelial Cell Damage and Activates Pro-Inflammatory Caspase-1 during Pseudomonas aeruginosa Infection. Toxins, 2022, 14, 152.	1.5	5
40	Mitochondrial DNA: Consensuses and Controversies. Dna, 2022, 2, 131-148.	0.4	5
41	A Method for In Situ Reverse Genetic Analysis of Proteins Involved mtDNA Replication. Cells, 2022, 11, 2168.	1.8	5
42	Development of an endothelial cell-restricted transgenic reporter rat: a resource for physiological studies of vascular biology. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H349-H358.	1.5	4
43	Impact of Na+ permeation on collective migration of pulmonary arterial endothelial cells. PLoS ONE, 2021, 16, e0250095.	1.1	4
44	Carbonic Anhydrase IX and Hypoxia Promote Rat Pulmonary Endothelial Cell Survival during Infection. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 630-645.	1.4	3
45	On separation and coding capacity of mtDNA strands. Protein Science, 2020, 29, 1070-1070.	3.1	2
46	On resolving the molecular identity of the endothelial cell nucleosome assembly protein. FASEB Journal, 2007, 21, A1433.	0.2	2
47	Unusual mtDNA Control Region Length Heteroplasmy in the COS-7 Cell Line. Genes, 2020, 11, 607.	1.0	1
48	Oxidative stress induces degradation of mitochondrial DNA. FASEB Journal, 2009, 23, 836.20.	0.2	1
49	Carbonic anhydrase IX proteoglycan-like and intracellular domains mediate pulmonary microvascular endothelial cell repair and angiogenesis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 323, L48-L57.	1.3	1
50	The mitochondrial genome sequence of the BS-C-1 cell line is at odds with the reported derivation from Cercopithecus aethiops. Mitochondrial DNA Part B: Resources, 2020, 5, 3492-3494.	0.2	0
51	TdTomato Transgenic Reporter Rat Reveals Endothelialâ€Specific Changes in Progression of PAH. FASEB Journal, 2021, 35, .	0.2	0
52	Disruption of the endothelial ISOC causes phenotypic changes in pulmonary artery endothelial cells. FASEB Journal, 2007, 21, .	0.2	0
53	Activation of a chimeric soluble adenylyl cyclase reorganizes microtubules near the cell periphery sufficient to disrupt the endothelial cell barrier. FASEB Journal, 2007, 21, A1432.	0.2	0
54	Cyclic AMP Phosphodiesterase 4D4 Expression in Lung Endothelium is a Determinant of Cell Phenotype. FASEB Journal, 2007, 21, A1433.	0.2	0

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55	Activation of a chimeric soluble adenylyl cyclase induces endothelial cell gap formation without disrupting the cortical actin rim. FASEB Journal, 2007, 21, A862.	0.2	0
56	Nucleosome Assembly Protein 1 (NAPâ€1) determines the progenitor status of endothelial cells. FASEB Journal, 2008, 22, 1178.12.	0.2	0
57	AMPâ€activated kinase Î±1 (AMPKÎ±1) promotes cellâ€cell adhesion in endothelial barrier repair. FASEB Journal, 2011, 25, .	0.2	0
58	Î± 1G (Ca V 3.1) Tâ€type calcium channel controls NOS3 activation in pulmonary microvascular endothelial cells. FASEB Journal, 2013, 27, 724.6.	0.2	0