

# Mikhail F Alexeyev

## List of Publications by Citations

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49  
papers

1,693  
citations

18  
h-index

41  
g-index

58  
ext. papers

1,988  
ext. citations

4.5  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
49	Oxidative stress induces degradation of mitochondrial DNA. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 2539-48	20.1	326
48	The maintenance of mitochondrial DNA integrity--critical analysis and update. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2013</b> , 5, a012641	10.2	274
47	Perinuclear mitochondrial clustering creates an oxidant-rich nuclear domain required for hypoxia-induced transcription. <i>Science Signaling</i> , <b>2012</b> , 5, ra47	8.8	229
46	Is there more to aging than mitochondrial DNA and reactive oxygen species?. <i>FEBS Journal</i> , <b>2009</b> , 276, 5768-87	5.7	119
45	Mitochondrial DNA and aging. <i>Clinical Science</i> , <b>2004</b> , 107, 355-64	6.5	105
44	Mitochondrial DNA damage triggers mitochondrial dysfunction and apoptosis in oxidant-challenged lung endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2005</b> , 288, L530-5	5.8	76
43	Aging: A mitochondrial DNA perspective, critical analysis and an update. <i>World Journal of Experimental Medicine</i> , <b>2014</b> , 4, 46-57	0.4	46
42	Persistent damage induces mitochondrial DNA degradation. <i>DNA Repair</i> , <b>2013</b> , 12, 488-99	4.3	40
41	Mitochondrial DNA: A disposable genome?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2015</b> , 1852, 1805-9	6.9	39
40	Endonuclease III and endonuclease VIII conditionally targeted into mitochondria enhance mitochondrial DNA repair and cell survival following oxidative stress. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 3240-7	20.1	36
39	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. <i>DNA Repair</i> , <b>2003</b> , 2, 471-82	4.3	32
38	TRPC4 inactivation confers a survival benefit in severe pulmonary arterial hypertension. <i>American Journal of Pathology</i> , <b>2013</b> , 183, 1779-1788	5.8	31
37	A retro-lentiviral system for doxycycline-inducible gene expression and gene knockdown in cells with limited proliferative capacity. <i>Molecular Biology Reports</i> , <b>2010</b> , 37, 1987-91	2.8	30
36	<i>Pseudomonas aeruginosa</i> exoenzymes U and Y induce a transmissible endothelial proteinopathy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 310, L337-53	5.8	25
35	Mitochondrial transcription in mammalian cells. <i>Frontiers in Bioscience - Landmark</i> , <b>2017</b> , 22, 835-853	2.8	24
34	Mitochondrial DNA ligase is dispensable for the viability of cultured cells but essential for mtDNA maintenance. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 26594-605	5.4	24
33	Endothelial hyperpermeability in severe pulmonary arterial hypertension: role of store-operated calcium entry. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 311, L560-9	5.8	24

32	Sodium entry through endothelial store-operated calcium entry channels: regulation by Orai1. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 308, C277-88	5.4	20
31	infection liberates transmissible, cytotoxic prion amyloids. <i>FASEB Journal</i> , <b>2017</b> , 31, 2785-2796	0.9	18
30	Methods for Efficient Elimination of Mitochondrial DNA from Cultured Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154684	6.4	15
29	A method for mutagenesis of mouse mtDNA and a resource of mouse mtDNA mutations for modeling human pathological conditions. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, e62	20.1	14
28	Extrinsic acidosis suppresses glycolysis and migration while increasing network formation in pulmonary microvascular endothelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2019</b> , 317, L188-L201	5.8	12
27	The "fast" and the "slow" modes of mitochondrial DNA degradation. <i>Mitochondrial DNA</i> , <b>2016</b> , 27, 490-8		12
26	Limited predictive value of TFAM in mitochondrial biogenesis. <i>Mitochondrion</i> , <b>2019</b> , 49, 156-165	4.9	12
25	Virulent <i>Pseudomonas aeruginosa</i> infection converts antimicrobial amyloids into cytotoxic prions. <i>FASEB Journal</i> , <b>2020</b> , 34, 9156-9179	0.9	11
24	N-cadherin coordinates AMP kinase-mediated lung vascular repair. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 310, L71-85	5.8	11
23	The efficiency of the translesion synthesis across abasic sites by mitochondrial DNA polymerase is low in mitochondria of 3T3 cells. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , <b>2016</b> , 27, 4390-4396	1.3	10
22	Carbonic anhydrase IX is a critical determinant of pulmonary microvascular endothelial cell pH regulation and angiogenesis during acidosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2018</b> , 315, L41-L51	5.8	10
21	Mutations in the passenger polypeptide can affect its partitioning between mitochondria and cytoplasm: mutations can impair the mitochondrial import of DsRed. <i>Molecular Biology Reports</i> , <b>2008</b> , 35, 215-23	2.8	10
20	Exoenzyme Y Contributes to End-Organ Dysfunction Caused by Pneumonia in Critically Ill Patients: An Exploratory Study. <i>Toxins</i> , <b>2020</b> , 12,	4.9	9
19	S100A6 is a positive regulator of PPP5C-FKBP51-dependent regulation of endothelial calcium signaling. <i>FASEB Journal</i> , <b>2020</b> , 34, 3179-3196	0.9	7
18	T-type calcium channel determines the angiogenic potential of pulmonary microvascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2019</b> , 316, C353-C364	5.4	7
17	Exoenzyme Y induces extracellular active caspase-7 accumulation independent from apoptosis: modulation of transmissible cytotoxicity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2020</b> , 319, L380-L390	5.8	6
16	Protective role of FKBP51 in calcium entry-induced endothelial barrier disruption. <i>Pulmonary Circulation</i> , <b>2018</b> , 8, 2045893217749987	2.7	5
15	Development of an endothelial cell-restricted transgenic reporter rat: a resource for physiological studies of vascular biology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2020</b> , 319, H349-H358	5.2	4

14	Presequence-Independent Mitochondrial Import of DNA Ligase Facilitates Establishment of Cell Lines with Reduced mtDNA Copy Number. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152705	3.7	4
13	Elimination of Mitochondrial DNA from Mammalian Cells. <i>Current Protocols in Cell Biology</i> , <b>2018</b> , 78, 20.11.31-20.31.14		
12	On resolving the molecular identity of the endothelial cell nucleosome assembly protein. <i>FASEB Journal</i> , <b>2007</b> , 21, A1433	0.9	2
11	Impact of Na <sup>+</sup> permeation on collective migration of pulmonary arterial endothelial cells. <i>PLoS ONE</i> , <b>2021</b> , 16, e0250095	3.7	2
10	Oxidative stress induces degradation of mitochondrial DNA. <i>FASEB Journal</i> , <b>2009</b> , 23, 836.20	0.9	1
9	Quantification of mtDNA content in cultured cells by direct droplet digital PCR. <i>Mitochondrion</i> , <b>2021</b> , 61, 102-113	4.9	1
8	Carbonic Anhydrase IX and Hypoxia Promote Rat Pulmonary Endothelial Cell Survival during Infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2021</b> , 65, 630-645	5.7	0
7	On separation and coding capacity of mtDNA strands. <i>Protein Science</i> , <b>2020</b> , 29, 1070	6.3	
6	Activation of a chimeric soluble adenylyl cyclase reorganizes microtubules near the cell periphery sufficient to disrupt the endothelial cell barrier. <i>FASEB Journal</i> , <b>2007</b> , 21, A1432	0.9	
5	Cyclic AMP Phosphodiesterase 4D4 Expression in Lung Endothelium is a Determinant of Cell Phenotype. <i>FASEB Journal</i> , <b>2007</b> , 21, A1433	0.9	
4	Activation of a chimeric soluble adenylyl cyclase induces endothelial cell gap formation without disrupting the cortical actin rim. <i>FASEB Journal</i> , <b>2007</b> , 21, A862	0.9	
3	Nucleosome Assembly Protein 1 (NAP-1) determines the progenitor status of endothelial cells. <i>FASEB Journal</i> , <b>2008</b> , 22, 1178.12	0.9	
2	⌘G (CaV3.1) T-type calcium channel controls NOS3 activation in pulmonary microvascular endothelial cells. <i>FASEB Journal</i> , <b>2013</b> , 27, 724.6	0.9	
1	The mitochondrial genome sequence of the BS-C-1 cell line is at odds with the reported derivation from. <i>Mitochondrial DNA Part B: Resources</i> , <b>2020</b> , 5, 3492-3494	0.5	