Bartosz Szczesny

List of Publications by Year
in descending order

39 papers	2,344 citations	218677 26 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	3269 citing authors

#	Article	IF	Citations
1	AP39, a novel mitochondria-targeted hydrogen sulfide donor, stimulates cellular bioenergetics, exerts cytoprotective effects and protects against the loss of mitochondrial DNA integrity in oxidatively stressed endothelial cells in vitro. Nitric Oxide - Biology and Chemistry, 2014, 41, 120-130.	2.7	225
2	Long Patch Base Excision Repair in Mammalian Mitochondrial Genomes. Journal of Biological Chemistry, 2008, 283, 26349-26356.	3.4	139
3	Regulation of Vascular Tone, Angiogenesis and Cellular Bioenergetics by the 3-Mercaptopyruvate Sulfurtransferase/H2S Pathway: Functional Impairment by Hyperglycemia and Restoration by dl-Î±-Lipoic Acid. Molecular Medicine, 2015, 21, 1-14.	4.4	121
4	Age-dependent deficiency in import of mitochondrial DNA glycosylases required for repair of oxidatively damaged bases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10670-10675.	7.1	114
5	The synthesis and functional evaluation of a mitochondria-targeted hydrogen sulfide donor, (10-oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide (AP39). MedChemComm, 2014, 5, 728-736.	3.4	104
6	Upregulation of Cystathionine-Î²-Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. Cancer Research, 2017, 77, 5741-5754.	0.9	102
7	Mitochondrial DNA damage and subsequent activation of Z-DNA binding protein 1 links oxidative stress to inflammation in epithelial cells. Scientific Reports, 2018, 8, 914.	3.3	100
8	Role of endogenous and exogenous nitric oxide, carbon monoxide and hydrogen sulfide in HCT116 colon cancer cell proliferation. Biochemical Pharmacology, 2018, 149, 186-204.	4.4	95
9	Effect of S-adenosyl-l-methionine (SAM), an allosteric activator of cystathionine-Î²-synthase (CBS) on colorectal cancer cell proliferation and bioenergetics in vitro. Nitric Oxide - Biology and Chemistry, 2014, 41, 146-156.	2.7	94
10	Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics. Scientific Reports, 2016, 6, 36125.	3.3	89
11	Conserved Structural Chemistry for Incision Activity in Structurally Non-homologous Apurinic/Apyrimidinic Endonuclease APE1 and Endonuclease IV DNA Repair Enzymes. Journal of Biological Chemistry, 2013, 288, 8445-8455.	3.4	88
12	Opposing roles of mitochondrial and nuclear PARP1 in the regulation of mitochondrial and nuclear DNA integrity: implications for the regulation of mitochondrial function. Nucleic Acids Research, 2014, 42, 13161-13173.	14.5	77
13	Suppression of Somatic Expansion Delays the Onset of Pathophysiology in a Mouse Model of Huntingtonâ€™s Disease. PLoS Genetics, 2015, 11, e1005267.	3.5	72
14	Macrophages Promote Oxidative Metabolism To Drive Nitric Oxide Generation in Response to Trypanosoma cruzi. Infection and Immunity, 2016, 84, 3527-3541.	2.2	69
15	Inhibition of Mitochondrial Bioenergetics by Esterase-Triggered COS/H₂S Donors. ACS Chemical Biology, 2017, 12, 2117-2123.	3.4	68
16	Time-Dependent and Organ-Specific Changes in Mitochondrial Function, Mitochondrial DNA Integrity, Oxidative Stress and Mononuclear Cell Infiltration in a Mouse Model of Burn Injury. PLoS ONE, 2015, 10, e0143730.	2.5	65
17	Screening of a composite library of clinically used drugs and well-characterized pharmacological compounds for cystathionine Î²-synthase inhibition identifies benserazide as a drug potentially suitable for repurposing for the experimental therapy of colon cancer. Pharmacological Research, 2016, 113, 18-37.	7.1	62
18	Mitochondrial poly(ADP-ribose) polymerase: The Wizard of Oz at work. Free Radical Biology and Medicine, 2016, 100, 257-270.	2.9	62

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19	Age- and tissue-specific changes in mitochondrial and nuclear DNA base excision repair activity in mice: Susceptibility of skeletal muscles to oxidative injury. Mechanisms of Ageing and Development, 2010, 131, 330-337.	4.6	60
20	Cystathionine-Î²-Synthase Inhibition for Colon Cancer: Enhancement of the Efficacy of Aminooxyacetic Acid via the Prodrug Approach. Molecular Medicine, 2016, 22, 361-379.	4.4	59
21	Hydrogen sulfide attenuates cytokine production through the modulation of chromatin remodeling. International Journal of Molecular Medicine, 2015, 35, 1741-1746.	4.0	55
22	Age-dependent modulation of DNA repair enzymes by covalent modification and subcellular distribution. Mechanisms of Ageing and Development, 2004, 125, 755-765.	4.6	53
23	Differentiation-Associated Downregulation of Poly(ADP-Ribose) Polymerase-1 Expression in Myoblasts Serves to Increase Their Resistance to Oxidative Stress. PLoS ONE, 2015, 10, e0134227.	2.5	42
24	Regulation of Mitochondrial Poly(ADP-Ribose) Polymerase Activation by theÎ²-Adrenoceptor/cAMP/Protein Kinase A Axis during Oxidative Stress. Molecular Pharmacology, 2014, 86, 450-462.	2.3	37
25	Effect of aging on intracellular distribution of abasic (AP) endonuclease 1 in the mouse liver. Mechanisms of Ageing and Development, 2005, 126, 1071-1078.	4.6	33
26	Deficiency in Repair of the Mitochondrial Genome Sensitizes Proliferating Myoblasts to Oxidative Damage. PLoS ONE, 2013, 8, e75201.	2.5	32
27	Early Inhibition of Fatty Acid Synthesis Reduces Generation of Memory Precursor Effector T Cells in Chronic Infection. Journal of Immunology, 2018, 200, 643-656.	0.8	26
28	Olaparib protects cardiomyocytes against oxidative stress and improves graft contractility during the early phase after heart transplantation in rats. British Journal of Pharmacology, 2018, 175, 246-261.	5.4	25
29	Upregulation and Mitochondrial Sequestration of Hemoglobin Occur in Circulating Leukocytes during Critical Illness, Conferring a Cytoprotective Phenotype. Molecular Medicine, 2015, 21, 666-675.	4.4	24
30	The PARP inhibitor olaparib exerts beneficial effects in mice subjected to cecal ligature and puncture and in cells subjected to oxidative stress without impairing DNA integrity: A potential opportunity for repurposing a clinically used oncological drug for the experimental therapy of sepsis. Pharmacological Research, 2019, 145, 104263.	7.1	21
31	Oxidative stress induces Z-DNA-binding protein 1â€“dependent activation of microglia via mtDNA released from retinal pigment epithelial cells. Journal of Biological Chemistry, 2022, 298, 101523.	3.4	21
32	Development of a stretchâ€induced neurotrauma model for mediumâ€throughput screening in vitro: identification of rifampicin as a neuroprotectant. British Journal of Pharmacology, 2018, 175, 284-300.	5.4	18
33	Cardiac Dysfunction after Burn Injury: Role of the AMPK-SIRT1-PGC1Î±-NFE2L2-ARE Pathway. Journal of the American College of Surgeons, 2020, 230, 562-571.	0.5	18
34	Differential acute and chronic effects of burn trauma on murine skeletal muscle bioenergetics. Burns, 2016, 42, 112-122.	1.9	17
35	Quantification of Circulating Cell Free Mitochondrial DNA in Extracellular Vesicles with PicoGreenâ„¢ in Liquid Biopsies: Fast Assessment of Disease/Trauma Severity. Cells, 2021, 10, 819.	4.1	16
36	Ligand-induced gene activation is associated with oxidative genome damage whose repair is required for transcription. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22183-22192.	7.1	15

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37	Hydrogen sulfide modulates chromatin remodeling and inflammatory mediator production in response to endotoxin, but does not play a role in the development of endotoxin tolerance. Journal of Inflammation, 2016, 13, 10.	3.4	13
38	Effects of the Poly(ADP-Ribose) Polymerase Inhibitor Olaparib in Cerulein-Induced Pancreatitis. Shock, 2020, 53, 653-665.	2.1	11
39	In vitro reconstitution reveals a key role of human mitochondrial EXOG in RNA primer processing. Nucleic Acids Research, 2022, 50, 7991-8007.	14.5	2