

Bartosz Szczesny

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,344
citations

218677

26
h-index

302126

39
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39
all docs

39
docs citations

39
times ranked

3269
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Oxidative stress induces Z-DNA-binding protein 1-dependent activation of microglia via mtDNA released from retinal pigment epithelial cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101523. | 3.4 | 21 |
| 2 | <i>In vitro</i> reconstitution reveals a key role of human mitochondrial EXOG in RNA primer processing. <i>Nucleic Acids Research</i> , 2022, 50, 7991-8007. | 14.5 | 2 |
| 3 | Quantification of Circulating Cell Free Mitochondrial DNA in Extracellular Vesicles with PicoGreen [®] in Liquid Biopsies: Fast Assessment of Disease/Trauma Severity. <i>Cells</i> , 2021, 10, 819. | 4.1 | 16 |
| 4 | Effects of the Poly(ADP-Ribose) Polymerase Inhibitor Olaparib in Cerulein-Induced Pancreatitis. <i>Shock</i> , 2020, 53, 653-665. | 2.1 | 11 |
| 5 | Ligand-induced gene activation is associated with oxidative genome damage whose repair is required for transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22183-22192. | 7.1 | 15 |
| 6 | Cardiac Dysfunction after Burn Injury: Role of the AMPK-SIRT1-PGC1 α -NFE2L2-ARE Pathway. <i>Journal of the American College of Surgeons</i> , 2020, 230, 562-571. | 0.5 | 18 |
| 7 | The PARP inhibitor olaparib exerts beneficial effects in mice subjected to cecal ligation 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. <i>Pharmacological Research</i> , 2019, 145, 104263. | 7.1 | 21 |
| 8 | Mitochondrial DNA damage and subsequent activation of Z-DNA binding protein 1 links oxidative stress to inflammation in epithelial cells. <i>Scientific Reports</i> , 2018, 8, 914. | 3.3 | 100 |
| 9 | Development of a stretch-induced neurotrauma model for medium-throughput screening <i>in vitro</i> : Identification of rifampicin as a neuroprotectant. <i>British Journal of Pharmacology</i> , 2018, 175, 284-300. | 5.4 | 18 |
| 10 | Role of endogenous and exogenous nitric oxide, carbon monoxide and hydrogen sulfide in HCT116 colon cancer cell proliferation. <i>Biochemical Pharmacology</i> , 2018, 149, 186-204. | 4.4 | 95 |
| 11 | Early Inhibition of Fatty Acid Synthesis Reduces Generation of Memory Precursor Effector T Cells in Chronic Infection. <i>Journal of Immunology</i> , 2018, 200, 643-656. | 0.8 | 26 |
| 12 | Olaparib protects cardiomyocytes against oxidative stress and improves graft contractility during the early phase after heart transplantation in rats. <i>British Journal of Pharmacology</i> , 2018, 175, 246-261. | 5.4 | 25 |
| 13 | Inhibition of Mitochondrial Bioenergetics by Esterase-Triggered COS/H ₂ S Donors. <i>ACS Chemical Biology</i> , 2017, 12, 2117-2123. | 3.4 | 68 |
| 14 | Upregulation of Cystathionine- β -Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. <i>Cancer Research</i> , 2017, 77, 5741-5754. | 0.9 | 102 |
| 15 | Cystathionine- β -Synthase Inhibition for Colon Cancer: Enhancement of the Efficacy of Aminooxyacetic Acid via the Prodrug Approach. <i>Molecular Medicine</i> , 2016, 22, 361-379. | 4.4 | 59 |
| 16 | Macrophages Promote Oxidative Metabolism To Drive Nitric Oxide Generation in Response to <i>Trypanosoma cruzi</i> . <i>Infection and Immunity</i> , 2016, 84, 3527-3541. | 2.2 | 69 |
| 17 | Screening of a composite library of clinically used drugs and well-characterized pharmacological compounds for cystathionine β -synthase inhibition identifies benzerazide as a drug potentially suitable for repurposing for the experimental therapy of colon cancer. <i>Pharmacological Research</i> , 2016, 113, 18-37. | 7.1 | 62 |
| 18 | Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics. <i>Scientific Reports</i> , 2016, 6, 36125. | 3.3 | 89 |

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|----|--|------|-----------|
| 19 | 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. <i>Journal of Inflammation</i> , 2016, 13, 10. | 3.4 | 13 |
| 20 | Mitochondrial poly(ADP-ribose) polymerase: The Wizard of Oz at work. <i>Free Radical Biology and Medicine</i> , 2016, 100, 257-270. | 2.9 | 62 |
| 21 | Differential acute and chronic effects of burn trauma on murine skeletal muscle bioenergetics. <i>Burns</i> , 2016, 42, 112-122. | 1.9 | 17 |
| 22 | Regulation of Vascular Tone, Angiogenesis and Cellular Bioenergetics by the 3-Mercaptopyruvate Sulfurtransferase/H ₂ S Pathway: Functional Impairment by Hyperglycemia and Restoration by dl- α -Lipoic Acid. <i>Molecular Medicine</i> , 2015, 21, 1-14. | 4.4 | 121 |
| 23 | 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. <i>PLoS ONE</i> , 2015, 10, e0143730. | 2.5 | 65 |
| 24 | Suppression of Somatic Expansion Delays the Onset of Pathophysiology in a Mouse Model of Huntington's Disease. <i>PLoS Genetics</i> , 2015, 11, e1005267. | 3.5 | 72 |
| 25 | Differentiation-Associated Downregulation of Poly(ADP-Ribose) Polymerase-1 Expression in Myoblasts Serves to Increase Their Resistance to Oxidative Stress. <i>PLoS ONE</i> , 2015, 10, e0134227. | 2.5 | 42 |
| 26 | Upregulation and Mitochondrial Sequestration of Hemoglobin Occur in Circulating Leukocytes during Critical Illness, Conferring a Cytoprotective Phenotype. <i>Molecular Medicine</i> , 2015, 21, 666-675. | 4.4 | 24 |
| 27 | Hydrogen sulfide attenuates cytokine production through the modulation of chromatin remodeling. <i>International Journal of Molecular Medicine</i> , 2015, 35, 1741-1746. | 4.0 | 55 |
| 28 | Regulation of Mitochondrial Poly(ADP-Ribose) Polymerase Activation by the α -Adrenoceptor/cAMP/Protein Kinase A Axis during Oxidative Stress. <i>Molecular Pharmacology</i> , 2014, 86, 450-462. | 2.3 | 37 |
| 29 | Opposing roles of mitochondrial and nuclear PARP1 in the regulation of mitochondrial and nuclear DNA integrity: implications for the regulation of mitochondrial function. <i>Nucleic Acids Research</i> , 2014, 42, 13161-13173. | 14.5 | 77 |
| 30 | Effect of S-adenosyl-L-methionine (SAM), an allosteric activator of cystathionine- β -synthase (CBS) on colorectal cancer cell proliferation and bioenergetics in vitro. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 41, 146-156. | 2.7 | 94 |
| 31 | 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. <i>Nitric Oxide - Biology and Chemistry</i> , 2014, 41, 120-130. | 2.7 | 225 |
| 32 | 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). <i>MedChemComm</i> , 2014, 5, 728-736. | 3.4 | 104 |
| 33 | Conserved Structural Chemistry for Incision Activity in Structurally Non-homologous Apurinic/Apyrimidinic Endonuclease APE1 and Endonuclease IV DNA Repair Enzymes. <i>Journal of Biological Chemistry</i> , 2013, 288, 8445-8455. | 3.4 | 88 |
| 34 | Deficiency in Repair of the Mitochondrial Genome Sensitizes Proliferating Myoblasts to Oxidative Damage. <i>PLoS ONE</i> , 2013, 8, e75201. | 2.5 | 32 |
| 35 | Age- and tissue-specific changes in mitochondrial and nuclear DNA base excision repair activity in mice: Susceptibility of skeletal muscles to oxidative injury. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 330-337. | 4.6 | 60 |
| 36 | Long Patch Base Excision Repair in Mammalian Mitochondrial Genomes. <i>Journal of Biological Chemistry</i> , 2008, 283, 26349-26356. | 3.4 | 139 |

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|----|---|-----|-----------|
| 37 | Effect of aging on intracellular distribution of abasic (AP) endonuclease 1 in the mouse liver. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 1071-1078. | 4.6 | 33 |
| 38 | Age-dependent modulation of DNA repair enzymes by covalent modification and subcellular distribution. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 755-765. | 4.6 | 53 |
| 39 | Age-dependent deficiency in import of mitochondrial DNA glycosylases required for repair of oxidatively damaged bases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10670-10675. | 7.1 | 114 |