# Paul S Brookes

## List of Publications by Citations



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|---|---|---|---|
| 145 papers | 19,649 citations | 57 h-index | 140 g-index |
| 165 ext. papers | 21,920 ext. citations | 6.8 avg, IF | 6.29 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 145 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222 | 10.2 | 3838 |
| 144 | Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544 | 10.2 | 2783 |
| 143 | Calcium, ATP, and ROS: a mitochondrial love-hate triangle. *American Journal of Physiology - Cell Physiology*, **2004**, 287, C817-33 | 5.4 | 1763 |
| 142 | Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. *Nature* , **2014**, 515, 431-435 | 50.4 | 1360 |
| 141 | BCL-2 inhibition targets oxidative phosphorylation and selectively eradicates quiescent human leukemia stem cells. *Cell Stem Cell*, **2013**, 12, 329-41 | 18 | 740 |
| 140 | Nitrite augments tolerance to ischemia/reperfusion injury via the modulation of mitochondrial electron transfer. *Journal of Experimental Medicine*, **2007**, 204, 2089-102 | 16.6 | 448 |
| 139 | Cardioprotection by S-nitrosation of a cysteine switch on mitochondrial complex I. *Nature Medicine*, **2013**, 19, 753-9 | 50.5 | 437 |
| 138 | Nitric oxide, mitochondria and neurological disease. *Biochimica Et Biophysica Acta - Bioenergetics*, **1999**, 1410, 215-28 | 4.6 | 359 |
| 137 | Mitochondrial H(+) leak and ROS generation: an odd couple. *Free Radical Biology and Medicine*, **2005** , 38, 12-23 | 7.8 | 323 |
| 136 | The basal proton conductance of mitochondria depends on adenine nucleotide translocase content. *Biochemical Journal*, **2005**, 392, 353-62 | 3.8 | 275 |
| 135 | Mitochondria: regulators of signal transduction by reactive oxygen and nitrogen species. *Free Radical Biology and Medicine*, **2002**, 33, 755-64 | 7.8 | 253 |
| 134 | Concentration-dependent effects of nitric oxide on mitochondrial permeability transition and cytochrome c release. *Journal of Biological Chemistry*, **2000**, 275, 20474-9 | 5.4 | 248 |
| 133 | Direct evidence for S-nitrosation of mitochondrial complex I. *Biochemical Journal*, **2006**, 394, 627-34 | 3.8 | 237 |
| 132 | Nutrient-sensitized screening for drugs that shift energy metabolism from mitochondrial respiration to glycolysis. *Nature Biotechnology*, **2010**, 28, 249-55 | 44.5 | 234 |
| 131 | SIRT1 is a redox-sensitive deacetylase that is post-translationally modified by oxidants and carbonyl stress. *FASEB Journal*, **2010**, 24, 3145-59 | 0.9 | 232 |
| 130 | Mitochondria as a drug target in ischemic heart disease and cardiomyopathy. *Circulation Research*, **2012**, 111, 1222-36 | 15.7 | 194 |
| 129 | A mitochondria-targeted S-nitrosothiol modulates respiration, nitrosates thiols, and protects against ischemia-reperfusion injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10764-9 | 11.5 | 184 |

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| 128 | The proton permeability of the inner membrane of liver mitochondria from ectothermic and endothermic vertebrates and from obese rats: correlations with standard metabolic rate and phospholipid fatty acid composition. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1998**, 119, 325-34 | 2.3 | 184 |
| 127 | Nanotransducers in cellular redox signaling: modification of thiols by reactive oxygen and nitrogen species. *Trends in Biochemical Sciences*, **2002**, 27, 489-92 | 10.3 | 165 |
| 126 | Specific modification of mitochondrial protein thiols in response to oxidative stress: a proteomics approach. *Journal of Biological Chemistry*, **2002**, 277, 17048-56 | 5.4 | 157 |
| 125 | High throughput two-dimensional blue-native electrophoresis: a tool for functional proteomics of mitochondria and signaling complexes. *Proteomics*, **2002**, 2, 969-77 | 4.8 | 151 |
| 124 | SIRT3 deficiency exacerbates ischemia-reperfusion injury: implication for aged hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1602-9 | 5.2 | 146 |
| 123 | Mitochondria as a target for the cardioprotective effects of nitric oxide in ischemia-reperfusion injury. *Antioxidants and Redox Signaling*, **2008**, 10, 579-99 | 8.4 | 145 |
| 122 | Mitochondrial nitric oxide synthase. *Mitochondrion*, **2004**, 3, 187-204 | 4.9 | 140 |
| 121 | Oxygen sensitivity of mitochondrial reactive oxygen species generation depends on metabolic conditions. *Journal of Biological Chemistry*, **2009**, 284, 16236-16245 | 5.4 | 132 |
| 120 | Cardioprotection and mitochondrial S-nitrosation: effects of S-nitroso-2-mercaptopropionyl glycine (SNO-MPG) in cardiac ischemia-reperfusion injury. *Journal of Molecular and Cellular Cardiology*, **2007**, 42, 812-25 | 5.8 | 125 |
| 119 | Cardioprotection by metabolic shut-down and gradual wake-up. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 804-10 | 5.8 | 123 |
| 118 | Mitochondria, nitric oxide, and cardiovascular dysfunction. *Free Radical Biology and Medicine*, **2002**, 33, 1465-74 | 7.8 | 123 |
| 117 | Mitochondrial dysfunction in cardiac ischemia-reperfusion injury: ROS from complex I, without inhibition. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2006**, 1762, 223-31 | 6.9 | 122 |
| 116 | Identification of S-nitrosated mitochondrial proteins by S-nitrosothiol difference in gel electrophoresis (SNO-DIGE): implications for the regulation of mitochondrial function by reversible S-nitrosation. *Biochemical Journal*, **2010**, 430, 49-59 | 3.8 | 119 |
| 115 | Response of mitochondrial reactive oxygen species generation to steady-state oxygen tension: implications for hypoxic cell signaling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H101-8 | 5.2 | 118 |
| 114 | Hypothesis: the mitochondrial NO(*) signaling pathway, and the transduction of nitrosative to oxidative cell signals: an alternative function for cytochrome C oxidase. *Free Radical Biology and Medicine*, **2002**, 32, 370-4 | 7.8 | 117 |
| 113 | Suppressors of Superoxide-HO Production at Site I of Mitochondrial Complex I Protect against Stem Cell Hyperplasia and Ischemia-Reperfusion Injury. *Cell Metabolism*, **2016**, 24, 582-592 | 24.6 | 108 |
| 112 | Lysine deacetylation in ischaemic preconditioning: the role of SIRT1. *Cardiovascular Research*, **2011**, 89, 643-9 | 9.9 | 107 |
| 111 | The mitochondrial ATP-dependent Lon protease: a novel target in lymphoma death mediated by the synthetic triterpenoid CDDO and its derivatives. *Blood*, **2012**, 119, 3321-9 | 2.2 | 104 |

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| 110 | Different mechanisms of mitochondrial proton leak in ischaemia/reperfusion injury and preconditioning: implications for pathology and cardioprotection. *Biochemical Journal*, **2006**, 395, 611-8 | 3.8 | 104 |
| 109 | Mitochondrial nitroalkene formation and mild uncoupling in ischaemic preconditioning: implications for cardioprotection. *Cardiovascular Research*, **2009**, 82, 333-40 | 9.9 | 103 |
| 108 | Peroxynitrite and brain mitochondria: evidence for increased proton leak. *Journal of Neurochemistry*, **1998**, 70, 2195-202 | 6 | 100 |
| 107 | Mechanisms of cell signaling by nitric oxide and peroxynitrite: from mitochondria to MAP kinases. *Antioxidants and Redox Signaling*, **2001**, 3, 215-29 | 8.4 | 100 |
| 106 | Control of mitochondrial respiration by NO*, effects of low oxygen and respiratory state. *Journal of Biological Chemistry*, **2003**, 278, 31603-9 | 5.4 | 97 |
| 105 | Acidic pH Is a Metabolic Switch for 2-Hydroxyglutarate Generation and Signaling. *Journal of Biological Chemistry*, **2016**, 291, 20188-97 | 5.4 | 90 |
| 104 | UCPs--unlikely calcium porters. *Nature Cell Biology*, **2008**, 10, 1235-7; author reply 1237-40 | 23.4 | 85 |
| 103 | The endogenous mitochondrial complex II inhibitor malonate regulates mitochondrial ATP-sensitive potassium channels: implications for ischemic preconditioning. *Biochimica Et Biophysica Acta - Bioenergetics*, **2008**, 1777, 882-9 | 4.6 | 83 |
| 102 | SIRT1-mediated acute cardioprotection. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H1506-12 | 5.2 | 81 |
| 101 | Redox regulation of the mitochondrial K(ATP) channel in cardioprotection. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2011**, 1813, 1309-15 | 4.9 | 77 |
| 100 | The complex II inhibitor atpenin A5 protects against cardiac ischemia-reperfusion injury via activation of mitochondrial KATP channels. *Basic Research in Cardiology*, **2009**, 104, 121-9 | 11.8 | 76 |
| 99 | Accumulation of Succinate in Cardiac Ischemia Primarily Occurs via Canonical Krebs Cycle Activity. *Cell Reports*, **2018**, 23, 2617-2628 | 10.6 | 75 |
| 98 | Mitochondrial function in response to cardiac ischemia-reperfusion after oral treatment with quercetin. *Free Radical Biology and Medicine*, **2002**, 32, 1220-8 | 7.8 | 70 |
| 97 | The assumption that nitric oxide inhibits mitochondrial ATP synthesis is correct. *FEBS Letters*, **1999**, 446, 261-3 | 3.8 | 68 |
| 96 | The proton permeability of liposomes made from mitochondrial inner membrane phospholipids: no effect of fatty acid composition. *Biochimica Et Biophysica Acta - Biomembranes*, **1997**, 1330, 157-64 | 3.8 | 66 |
| 95 | Mechanisms of the interaction of nitroxyl with mitochondria. *Biochemical Journal*, **2004**, 379, 359-66 | 3.8 | 66 |
| 94 | In vivo cardioprotection by S-nitroso-2-mercaptopropionyl glycine. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 960-8 | 5.8 | 63 |
| 93 | Ischemic preconditioning: the role of mitochondria and aging. *Experimental Gerontology*, **2012**, 47, 1-7 | 4.5 | 62 |

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|---|---|---|---|
| 92 | Role of calcium and superoxide dismutase in sensitizing mitochondria to peroxynitrite-induced permeability transition. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H39-46 | 5.2 | 62 |
| 91 | Characterization of weight loss and weight regain mechanisms after Roux-en-Y gastric bypass in rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R1474-89 | 3.2 | 60 |
| 90 | Moving Forwards by Blocking Back-Flow: The Yin and Yang of MI Therapy. *Circulation Research*, **2016**, 118, 898-906 | 15.7 | 60 |
| 89 | Mitochondrial Dok-4 recruits Src kinase and regulates NF-kappaB activation in endothelial cells. *Journal of Biological Chemistry*, **2005**, 280, 26383-96 | 5.4 | 57 |
| 88 | An analysis of the effects of Mn2+ on oxidative phosphorylation in liver, brain, and heart mitochondria using state 3 oxidation rate assays. *Toxicology and Applied Pharmacology*, **2010**, 249, 65-75 | 4.6 | 56 |
| 87 | Physiological consequences of complex II inhibition for aging, disease, and the mKATP channel. *Biochimica Et Biophysica Acta - Bioenergetics*, **2013**, 1827, 598-611 | 4.6 | 54 |
| 86 | SLO-2 is cytoprotective and contributes to mitochondrial potassium transport. *PLoS ONE*, **2011**, 6, e28287 | 3.7 | 52 |
| 85 | Decreasing mitochondrial fission alleviates hepatic steatosis in a murine model of nonalcoholic fatty liver disease. *American Journal of Physiology - Renal Physiology*, **2014**, 307, G632-41 | 5.1 | 50 |
| 84 | Modulation of cell surface protein free thiols: a potential novel mechanism of action of the sesquiterpene lactone parthenolide. *PLoS ONE*, **2009**, 4, e8115 | 3.7 | 50 |
| 83 | Increased sensitivity of mitochondrial respiration to inhibition by nitric oxide in cardiac hypertrophy. *Journal of Molecular and Cellular Cardiology*, **2001**, 33, 69-82 | 5.8 | 50 |
| 82 | NDUFS4: creation of a mouse model mimicking a Complex I disorder. *Mitochondrion*, **2009**, 9, 204-10 | 4.9 | 49 |
| 81 | The triterpenoid 2-cyano-3,12-dioxooleana-1,9-dien-28-oic acid and its derivatives elicit human lymphoid cell apoptosis through a novel pathway involving the unregulated mitochondrial permeability transition pore. *Cancer Research*, **2007**, 67, 1793-802 | 10.1 | 48 |
| 80 | Cardioprotection by the mitochondrial unfolded protein response requires ATF5. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H472-H478 | 5.2 | 45 |
| 79 | A novel mitochondrial K(ATP) channel assay. *Circulation Research*, **2010**, 106, 1190-6 | 15.7 | 45 |
| 78 | Cyclophilin D Knock-Out Mice Show Enhanced Resistance to Osteoporosis and to Metabolic Changes Observed in Aging Bone. *PLoS ONE*, **2016**, 11, e0155709 | 3.7 | 45 |
| 77 | Chronic alcohol consumption increases the sensitivity of rat liver mitochondrial respiration to inhibition by nitric oxide. *Hepatology*, **2003**, 38, 141-7 | 11.2 | 43 |
| 76 | Mitochondrial dysfunction and permeability transition in osteosarcoma cells showing the Warburg effect. *Journal of Biological Chemistry*, **2013**, 288, 33303-11 | 5.4 | 39 |
| 75 | Metabolomic profiling of the heart during acute ischemic preconditioning reveals a role for SIRT1 in rapid cardioprotective metabolic adaptation. *Journal of Molecular and Cellular Cardiology*, **2015**, 88, 64-72 | 5.8 | 38 |

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|---|---|---|---|
| 74 | Cardiac metabolism as a driver and therapeutic target of myocardial infarction. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 5937-5954 | 5.6 | 38 |
| 73 | Sustained weight loss after Roux-en-Y gastric bypass is characterized by down regulation of endocannabinoids and mitochondrial function. *Annals of Surgery*, **2008**, 247, 779-90 | 7.8 | 38 |
| 72 | Dual targeting of the thioredoxin and glutathione antioxidant systems in malignant B cells: a novel synergistic therapeutic approach. *Experimental Hematology*, **2015**, 43, 89-99 | 3.1 | 37 |
| 71 | Hyperoxia activates ATM independent from mitochondrial ROS and dysfunction. *Redox Biology*, **2015**, 5, 176-185 | 11.3 | 34 |
| 70 | Redox signalling: from nitric oxide to oxidized lipids. *Biochemical Society Symposia*, **2004**, 107-20 | | 34 |
| 69 | Kir6.2 is not the mitochondrial KATP channel but is required for cardioprotection by ischemic preconditioning. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H1439-45 | 5.2 | 33 |
| 68 | Nitroalkenes confer acute cardioprotection via adenine nucleotide translocase 1. *Journal of Biological Chemistry*, **2012**, 287, 3573-80 | 5.4 | 32 |
| 67 | A non-cardiomyocyte autonomous mechanism of cardioprotection involving the SLO1 BK channel. *PeerJ*, **2013**, 1, e48 | 3.1 | 32 |
| 66 | Cardioprotection by nicotinamide mononucleotide (NMN): Involvement of glycolysis and acidic pH. *Journal of Molecular and Cellular Cardiology*, **2018**, 121, 155-162 | 5.8 | 31 |
| 65 | Meclizine inhibits mitochondrial respiration through direct targeting of cytosolic phosphoethanolamine metabolism. *Journal of Biological Chemistry*, **2013**, 288, 35387-95 | 5.4 | 28 |
| 64 | Synthesis and Antineoplastic Evaluation of Mitochondrial Complex II (Succinate Dehydrogenase) Inhibitors Derived from Atpenin A5. *ChemMedChem*, **2017**, 12, 1033-1044 | 3.7 | 27 |
| 63 | Measurement of mitochondrial respiratory thresholds and the control of respiration by nitric oxide. *Methods in Enzymology*, **2002**, 359, 305-19 | 1.7 | 27 |
| 62 | Bioenergetics in cardiac hypertrophy: mitochondrial respiration as a pathological target of NO*. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H2261-9 | 5.2 | 27 |
| 61 | The C. elegans mitochondrial K+(ATP) channel: a potential target for preconditioning. *Biochemical and Biophysical Research Communications*, **2008**, 376, 625-8 | 3.4 | 26 |
| 60 | Krebs cycle metabolites and preferential succinate oxidation following neonatal hypoxic-ischemic brain injury in mice. *Pediatric Research*, **2018**, 83, 491-497 | 3.2 | 26 |
| 59 | The Slo(w) path to identifying the mitochondrial channels responsible for ischemic protection. *Biochemical Journal*, **2017**, 474, 2067-2094 | 3.8 | 25 |
| 58 | A cell-based phenotypic assay to identify cardioprotective agents. *Circulation Research*, **2012**, 110, 948-57 | 15.7 | 25 |
| 57 | Cellular Compartmentation and the Redox/Nonredox Functions of NAD. *Antioxidants and Redox Signaling*, **2019**, 31, 623-642 | 8.4 | 24 |

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|---|---|---|---|
| 56 | The coordinated increased expression of biliverdin reductase and heme oxygenase-2 promotes cardiomyocyte survival: a reductase-based peptide counters adrenergic receptor ligand-mediated cardiac dysfunction. *FASEB Journal*, **2011**, 25, 301-13 | 0.9 | 23 |
| 55 | Fndc-1 contributes to paternal mitochondria elimination in C. elegans. *Developmental Biology*, **2019**, 454, 15-20 | 3.1 | 22 |
| 54 | The cardioprotective compound cloxyquin uncouples mitochondria and induces autophagy. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H29-38 | 5.2 | 22 |
| 53 | Reversible inhibition of cytochrome c oxidase by peroxynitrite proceeds through ascorbate-dependent generation of nitric oxide. *Journal of Biological Chemistry*, **2003**, 278, 27520-4 | 5.4 | 19 |
| 52 | The Mitochondrial Unfolded Protein Response Protects against Anoxia in Caenorhabditis elegans. *PLoS ONE*, **2016**, 11, e0159989 | 3.7 | 19 |
| 51 | Mitochondrial ATP-sensitive potassium channel activity and hypoxic preconditioning are independent of an inwardly rectifying potassium channel subunit in Caenorhabditis elegans. *FEBS Letters*, **2012**, 586, 428-34 | 3.8 | 18 |
| 50 | Mice lacking TR4 nuclear receptor develop mitochondrial myopathy with deficiency in complex I. *Molecular Endocrinology*, **2011**, 25, 1301-10 | | 18 |
| 49 | Mitochondrial biotransformation of omega-(phenoxy)alkanoic acids, 3-(phenoxy)acrylic acids, and omega-(1-methyl-1H-imidazol-2-ylthio)alkanoic acids: a prodrug strategy for targeting cytoprotective antioxidants to mitochondria. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 1441-8 | 3.4 | 18 |
| 48 | Cardiac metabolic effects of K1.2 channel deletion and evidence for its mitochondrial localization. *FASEB Journal*, **2018**, 32, fj201800139R | 0.9 | 17 |
| 47 | Mitochondrial proton leak and superoxide generation: an hypothesis. *Biochemical Society Transactions*, **1998**, 26, S331 | 5.1 | 16 |
| 46 | Bicarbonate modulates oxidative and functional damage in ischemia-reperfusion. *Free Radical Biology and Medicine*, **2013**, 55, 46-53 | 7.8 | 15 |
| 45 | Oxidation of 10-formyltetrahydrofolate to 10-formyldihydrofolate by complex IV of rat mitochondria. *Biochemistry*, **2002**, 41, 5633-6 | 3.2 | 14 |
| 44 | Potential mechanisms linking SIRT activity and hypoxic 2-hydroxyglutarate generation: no role for direct enzyme (de)acetylation. *Biochemical Journal*, **2017**, 474, 2829-2839 | 3.8 | 13 |
| 43 | Role of p90(RSK) in regulating the Crabtree effect: implications for cancer. *Biochemical Society Transactions*, **2013**, 41, 124-6 | 5.1 | 13 |
| 42 | The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria.. *Acta Biochimica Polonica*, **2010**, 57, | 2 | 12 |
| 41 | Cardiac Slo2.1 Is Required for Volatile Anesthetic Stimulation of K+ Transport and Anesthetic Preconditioning. *Anesthesiology*, **2016**, 124, 1065-76 | 4.3 | 11 |
| 40 | A shortcut to mitochondrial signaling and pathology: a commentary on "Nonenzymatic formation of succinate in mitochondria under oxidative stress". *Free Radical Biology and Medicine*, **2006**, 41, 41-5 | 7.8 | 11 |
| 39 | The choline transporter Slc44a2 controls platelet activation and thrombosis by regulating mitochondrial function. *Nature Communications*, **2020**, 11, 3479 | 17.4 | 11 |

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| 38 | Mitochondrially targeted nitro-linoleate: a new tool for the study of cardioprotection. *British Journal of Pharmacology*, **2014**, 171, 2091-8 | 8.6 | 10 |
| 37 | Modulation of mitochondrial adenosine triphosphate-sensitive potassium channels and sodium-hydrogen exchange provide additive protection from severe ischemia-reperfusion injury. *Journal of Thoracic and Cardiovascular Surgery*, **2003**, 125, 863-71 | 1.5 | 10 |
| 36 | Acid enhancement of ROS generation by complex-I reverse electron transport is balanced by acid inhibition of complex-II: Relevance for tissue reperfusion injury. *Redox Biology*, **2020**, 37, 101733 | 11.3 | 10 |
| 35 | Metabolomics reveals critical adrenergic regulatory checkpoints in glycolysis and pentose-phosphate pathways in embryonic heart. *Journal of Biological Chemistry*, **2018**, 293, 6925-6941 | 5.4 | 8 |
| 34 | The mitochondrial complex II and ATP-sensitive potassium channel interaction: quantitation of the channel in heart mitochondria. *Acta Biochimica Polonica*, **2010**, 57, 431-4 | 2 | 8 |
| 33 | DNA double-strand breaks activate ATM independent of mitochondrial dysfunction in A549 cells. *Free Radical Biology and Medicine*, **2014**, 75, 30-9 | 7.8 | 7 |
| 32 | Stimulation of glyceraldehyde-3-phosphate dehydrogenase by oxyhemoglobin. *FEBS Letters*, **1997**, 416, 90-2 | 3.8 | 7 |
| 31 | Internet publicity of data problems in the bioscience literature correlates with enhanced corrective action. *PeerJ*, **2014**, 2, e313 | 3.1 | 6 |
| 30 | p90 ribosomal S6 kinase regulates activity of the renin-angiotensin system: a pathogenic mechanism for ischemia-reperfusion injury. *Journal of Molecular and Cellular Cardiology*, **2011**, 51, 272-5 | 5.8 | 6 |
| 29 | Intra-myocyte ion homeostasis during ischemia-reperfusion injury: effects of pharmacologic preconditioning and controlled reperfusion. *Annals of Thoracic Surgery*, **2003**, 76, 1252-8; discussion 1258 | 3.7 | 6 |
| 28 | Bioscience-scale automated detection of figure element reuse | | 6 |
| 27 | The RSK Inhibitor BIX02565 Limits Cardiac Ischemia/Reperfusion Injury. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2016**, 21, 177-86 | 2.6 | 5 |
| 26 | Methods for measuring the regulation of respiration by nitric oxide. *Methods in Cell Biology*, **2007**, 80, 395-416 | 1.8 | 5 |
| 25 | Neonatal hyperoxia inhibits proliferation and survival of atrial cardiomyocytes by suppressing fatty acid synthesis. *JCI Insight*, **2021**, 6, | 9.9 | 5 |
| 24 | Early life exposures shape the CD4 T cell transcriptome, influencing proliferation, differentiation, and mitochondrial dynamics later in life. *Scientific Reports*, **2019**, 9, 11489 | 4.9 | 4 |
| 23 | Measurement of extracellular (exofacial) versus intracellular protein thiols. *Methods in Enzymology*, **2010**, 474, 149-64 | 1.7 | 4 |
| 22 | ALKBH7 mediates necrosis via rewiring of glyoxal metabolism. *ELife*, **2020**, 9, | 8.9 | 4 |
| 21 | FNDC-1-mediated mitophagy and ATFS-1 coordinate to protect against hypoxia-reoxygenation. *Autophagy*, **2021**, 17, 3389-3401 | 10.2 | 4 |

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| 20 | Peroxynitrite causes proton leak in brain mitochondria. *Biochemical Society Transactions*, **1998**, 26, S332 | 5.1 | 3 |
| 19 | Nucleus-mitochondria positive feedback loop formed by ERK5 S496 phosphorylation-mediated poly (ADP-ribose) polymerase activation provokes persistent pro-inflammatory senescent phenotype and accelerates coronary atherosclerosis after chemo-radiation. *Redox Biology*, **2021**, 47, 102132 | 11.3 | 3 |
| 18 | Cardiac Function is not Susceptible to Moderate Disassembly of Mitochondrial Respiratory Supercomplexes. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 2 |
| 17 | SMG-1 kinase attenuates mitochondrial ROS production but not cell respiration deficits during hyperoxia. *Experimental Lung Research*, **2017**, 43, 229-239 | 2.3 | 2 |
| 16 | Mitochondria and Nitric Oxide **2017**, 137-156 | | 2 |
| 15 | The Rheumatoid Arthritis Drug Auranofin Has Significant in Vitro Activity in MCL and DLCL and Is Synergistic with a Glutathione Depleting Agent. *Blood*, **2012**, 120, 1658-1658 | 2.2 | 2 |
| 14 | Bcl-2 Inhibitor ABT-263 Targets Oxidative Phosphorylation and Selectively Eradicates Quiescent Human Leukemia Stem Cells. *Blood*, **2012**, 120, 206-206 | 2.2 | 2 |
| 13 | Metabolomics of aging in primary fibroblasts from small and large breed dogs. *GeroScience*, **2021**, 43, 1683-1696 | 8.9 | 2 |
| 12 | Chapter 10 The Interaction of Mitochondrial Membranes with Reactive Oxygen and Nitrogen Species. *Current Topics in Membranes*, **2008**, 211-242 | 2.2 | 1 |
| 11 | Cardioprotection by the mitochondrial unfolded protein response (UPRmt) is mediated by activating transcription factor 5 (ATF5) | | 1 |
| 10 | Neonatal hyperoxia inhibits proliferation of atrial cardiomyocytes by suppressing fatty acid synthesis | | 1 |
| 9 | Discovery of Halogenated Benzothiadiazine Derivatives with Anticancer Activity*. *ChemMedChem*, **2021**, 16, 1143-1162 | 3.7 | 1 |
| 8 | Modified Blue Native Gel Approach for Analysis of Respiratory Supercomplexes. *Methods in Molecular Biology*, **2021**, 2276, 227-234 | 1.4 | 1 |
| 7 | Metabolomics of aging in primary fibroblasts from small and large breed dogs | | 1 |
| 6 | Modulation of Cell Surface Protein Free Thiols; A Potential Novel Mechanism of Action of the Sesquiterpene Lactone Parthenolide in Non-Hodgkin Lymphoma.. *Blood*, **2009**, 114, 3774-3774 | 2.2 | 0 |
| 5 | Reactive Oxygen Species (ROS) Levels Define Functional Heterogeneity in Human Leukemia Stem Cells and Represent a Critical Parameter for Therapeutic Targeting. *Blood*, **2011**, 118, 639-639 | 2.2 | 0 |
| 4 | Stimulation of glyceraldehyde-3-phosphate dehydrogenase by oxyhemoglobin. *Biochemical Society Transactions*, **1998**, 26, S246 | 5.1 | |
| 3 | The Triterpenoids 2-cyano-3,12-dioxooleana-1,9-dien-28-oic Acid (CDDO) and Their Imidazole (CDDO-Im) and Dinitrile Derivatives (DI-CDDO) Elicit Apoptosis through a Novel Mitochondrial Pathway.. *Blood*, **2005**, 106, 2426-2426 | 2.2 | |

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|---|---|---|
| 2 | Aging and Cardiac Ischemia: Mitochondria and Free Radical Considerations **2008**, 253-267 | |
| 1 | Slo2 contributes to mitochondrial potassium flux and is required for anesthetic preconditioning. *FASEB Journal*, **2011**, 25, 1097.15 | 0.9 |