# Kenneth M Humphries

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 61 papers | 3,440 citations | 172207 29 h-index | 205818 48 g-index |
| 64 all docs | 64 docs citations | 64 times ranked | 5248 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | MicroRNA-214 protects the mouse heart from ischemic injury by controlling Ca2+ overload and cell death. Journal of Clinical Investigation, 2012, 122, 1222-1232. | 3.9 | 340 |
| 2 | Selective Inactivation of Î±-Ketoglutarate Dehydrogenase and Pyruvate Dehydrogenase:Â Reaction of Lipoic Acid with 4-Hydroxy-2-nonenalâ€. Biochemistry, 1998, 37, 15835-15841. | 1.2 | 329 |
| 3 | Oxidative Modification and Inactivation of the Proteasome during Coronary Occlusion/Reperfusion. Journal of Biological Chemistry, 2001, 276, 30057-30063. | 1.6 | 328 |
| 4 | Maintenance of cardiac energy metabolism by histone deacetylase 3 in mice. Journal of Clinical Investigation, 2008, 118, 3588-3597. | 3.9 | 305 |
| 5 | Inhibition of NADH-Linked Mitochondrial Respiration by 4-Hydroxy-2-nonenalâ€. Biochemistry, 1998, 37, 552-557. | 1.2 | 220 |
| 6 | Regulation of cAMP-dependent Protein Kinase Activity by Glutathionylation. Journal of Biological Chemistry, 2002, 277, 43505-43511. | 1.6 | 159 |
| 7 | Enhanced Dephosphorylation of cAMP-dependent Protein Kinase by Oxidation and Thiol Modification. Journal of Biological Chemistry, 2005, 280, 2750-2758. | 1.6 | 122 |
| 8 | Reversible Inhibition of Î±-Ketoglutarate Dehydrogenase by Hydrogen Peroxide:â€‰ Glutathionylation and Protection of Lipoic Acid. Biochemistry, 2008, 47, 473-478. | 1.2 | 121 |
| 9 | Insulin-like growth factor receptor signaling regulates working memory, mitochondrial metabolism, and amyloid-Î² uptake in astrocytes. Molecular Metabolism, 2018, 9, 141-155. | 3.0 | 119 |
| 10 | Selective inactivation of redox-sensitive mitochondrial enzymes during cardiac reperfusion. Archives of Biochemistry and Biophysics, 2002, 406, 222-228. | 1.4 | 92 |
| 11 | Aging Promotes Sirtuin 3â€“Dependent Cartilage Superoxide Dismutase 2 Acetylation and Osteoarthritis. Arthritis and Rheumatology, 2016, 68, 1887-1898. | 2.9 | 82 |
| 12 | Loss of mitochondrial protease ClpP protects mice from dietâ€induced obesity and insulin resistance. EMBO Reports, 2018, 19, . | 2.0 | 75 |
| 13 | Peroxisome Proliferatorâ€“Activated Receptor Î± Protects Capillary Pericytes in the Retina. American Journal of Pathology, 2014, 184, 2709-2720. | 1.9 | 71 |
| 14 | Selective Inhibition of Deactivated Mitochondrial Complex I by Biguanides. Biochemistry, 2015, 54, 2011-2021. | 1.2 | 69 |
| 15 | Mitochondrial respiration and redox coupling in articular chondrocytes. Arthritis Research and Therapy, 2015, 17, 54. | 1.6 | 63 |
| 16 | Lysine Acetylation Activates Mitochondrial Aconitase in the Heart. Biochemistry, 2015, 54, 4008-4018. | 1.2 | 62 |
| 17 | Redox Regulation of cAMP-dependent Protein Kinase Signaling. Journal of Biological Chemistry, 2007, 282, 22072-22079. | 1.6 | 61 |
| 18 | Aging: A shift from redox regulation to oxidative damage. Free Radical Research, 2006, 40, 1239-1243. | 1.5 | 58 |

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|---|---|---|---|
| 19 | Metabolic inflexibility and protein lysine acetylation in heart mitochondria of a chronic model of TypeÂ1 diabetes. Biochemical Journal, 2013, 449, 253-261. | 1.7 | 53 |
| 20 | PKA, PKC, and AKAP localization in and around the neuromuscular junction. BMC Neuroscience, 2001, 2, 17. | 0.8 | 52 |
| 21 | Mitochondrial oxidative stress impairs contractile function but paradoxically increases muscle mass via fibre branching. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 411-428. | 2.9 | 50 |
| 22 | AG311, a small molecule inhibitor of complex I and hypoxia-induced HIF-1Î± stabilization. Cancer Letters, 2017, 388, 149-157. | 3.2 | 45 |
| 23 | Decreased Mitochondrial Pyruvate Transport Activity in the Diabetic Heart. Journal of Biological Chemistry, 2017, 292, 4423-4433. | 1.6 | 44 |
| 24 | cAMP-dependent Protein Kinase (PKA) Signaling Is Impaired in the Diabetic Heart. Journal of Biological Chemistry, 2015, 290, 29250-29258. | 1.6 | 41 |
| 25 | Cardiac Insulin Signaling Regulates Glycolysis Through Phosphofructokinase 2 Content and Activity. Journal of the American Heart Association, 2017, 6, . | 1.6 | 37 |
| 26 | PPARÎ± is essential for retinal lipid metabolism and neuronal survival. BMC Biology, 2017, 15, 113. | 1.7 | 36 |
| 27 | Lead isotopic and chalcophile element compositions in the environment near a zinc smeltingâ€“secondary zinc recovery facility, Palmerton, Pennsylvania, USA. Applied Geochemistry, 2001, 16, 207-229. | 1.4 | 35 |
| 28 | Acute Inhibition of Fatty Acid Import Inhibits GLUT4 Transcription in Adipose Tissue, but Not Skeletal or Cardiac Muscle Tissue, Partly Through Liver X Receptor (LXR) Signaling. Diabetes, 2010, 59, 800-807. | 0.3 | 32 |
| 29 | Nutrient sensing and utilization: Getting to the heart of metabolic flexibility. Biochimie, 2016, 124, 74-83. | 1.3 | 31 |
| 30 | Neuroprotective effects of PPARÎ± in retinopathy of type 1 diabetes. PLoS ONE, 2019, 14, e0208399. | 1.1 | 31 |
| 31 | Inhibition of succinate-linked respiration and complex II activity by hydrogen peroxide. Archives of Biochemistry and Biophysics, 2009, 488, 69-75. | 1.4 | 28 |
| 32 | Regulated production of free radicals by the mitochondrial electron transport chain: Cardiac ischemic preconditioningâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 1324-1331. | 6.6 | 27 |
| 33 | Comparative Immunoreactivity of Anti-trifluoroacetyl (TFA) Antibody and Anti-lipoic Acid Antibody in Primary Biliary Cirrhosis: Searching for a Mimic. Journal of Autoimmunity, 2000, 15, 51-60. | 3.0 | 25 |
| 34 | Enhanced GLUT4-Dependent Glucose Transport Relieves Nutrient Stress in Obese Mice Through Changes in Lipid and Amino Acid Metabolism. Diabetes, 2016, 65, 3585-3597. | 0.3 | 24 |
| 35 | A biallelic pathogenic variant in the <scp>OGDH</scp> gene results in a neurological disorder with features of a mitochondrial disease. Journal of Inherited Metabolic Disease, 2021, 44, 388-400. | 1.7 | 24 |
| 36 | A Small Molecule with Anticancer and Antimetastatic Activities Induces Rapid Mitochondrial-Associated Necrosis in Breast Cancer. Journal of Pharmacology and Experimental Therapeutics, 2015, 353, 392-404. | 1.3 | 21 |

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|---|---|---|---|
| 37 | GCâ€“MS metabolic profiling reveals fructose-2,6-bisphosphate regulates branched chain amino acid metabolism in the heart during fasting. Metabolomics, 2019, 15, 18. | 1.4 | 18 |
| 38 | Mitochondrial superoxide production and respiratory activity: Biphasic response to ischemic duration. Archives of Biochemistry and Biophysics, 2009, 484, 87-93. | 1.4 | 16 |
| 39 | Sirt5 Deficiency Causes Posttranslational Protein Malonylation and Dysregulated Cellular Metabolism in Chondrocytes Under Obesity Conditions. Cartilage, 2021, 13, 1185S-1199S. | 1.4 | 16 |
| 40 | Identification of Mitochondrial Electron Transport Chain-Mediated NADH Radical Formation by EPR Spin-Trapping Techniques. Biochemistry, 2011, 50, 10792-10803. | 1.2 | 15 |
| 41 | Enhancing cardiac glycolysis causes an increase in PDK4 content in response to short-term high-fat diet. Journal of Biological Chemistry, 2019, 294, 16831-16845. | 1.6 | 13 |
| 42 | GCâ€“MS method for metabolic profiling of mouse femoral head articular cartilage reveals distinct effects of tissue culture and development. Osteoarthritis and Cartilage, 2019, 27, 1361-1371. | 0.6 | 12 |
| 43 | Insulin signaling alters antioxidant capacity in the diabetic heart. Redox Biology, 2021, 47, 102140. | 3.9 | 11 |
| 44 | Inhibition of mitochondrial respiration by phosphoenolpyruvate. Archives of Biochemistry and Biophysics, 2011, 514, 68-74. | 1.4 | 6 |
| 45 | Recent advances in understanding glucose transport and glucose disposal. F1000Research, 2020, 9, 639. | 0.8 | 6 |
| 46 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. PLoS ONE, 2020, 15, e0231806. | 1.1 | 5 |
| 47 | PFKFB3â€dependent glucose metabolism regulates 3T3â€L1 adipocyte development. FASEB Journal, 2021, 35, e21728. | 0.2 | 3 |
| 48 | Cardiac Reperfusion Injury: Aging, Lipid Peroxidation, and Mitochondrial Function. , 2002, , 95-111. | | 1 |
| 49 | Inactivation and Inhibition of Alpha-Ketoglutarate Dehydrogenase. Oxidative Stress and Disease, 2008, , . | 0.3 | 1 |
| 50 | MnSod deficiency causes significant mitochondrial abnormalities and contractile dysfunction in skeletal muscle, but does not decrease muscle mass. Free Radical Biology and Medicine, 2017, 112, 48. | 1.3 | 0 |
| 51 | Increasing Glycolysis Protects Cardiac Function Against High Fat Dietâ€Induced Cardiomyopathy. FASEB Journal, 2021, 35, . | 0.2 | 0 |
| 52 | Inhibition of succinateâ€linked mitochondrial respiration by hydrogen peroxide. FASEB Journal, 2008, 22, 1033.4. | 0.2 | 0 |
| 53 | Abstract 4451: Novel small molecule AG311 induces tumor cell death through inhibition of mitochondrial electron transport. , 2015, , . | | 0 |
| 54 | Muscle specific MnSOD deficiency leads to complex IIâ€specific inactivity of ETC and contractile dysfunction, but increases muscle mass. FASEB Journal, 2018, 32, 618.16. | 0.2 | 0 |

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|---|---|---|---|
| 55 | P66Shc is an Apoptotic Rheostat Whose Targeted ROS Inhibition Improves Myocardial Infarction Outcomes. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 56 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |
| 57 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |
| 58 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |
| 59 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |
| 60 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |
| 61 | Diabetes induced decreases in PKA signaling in cardiomyocytes: The role of insulin. , 2020, 15, e0231806. | | 0 |