

Bradford G Hill

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

11,940
citations

57758

44
h-index

30087

103
g-index

111
all docs

111
docs citations

111
times ranked

24187
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo deep network tracing reveals phosphofructokinase-mediated coordination of biosynthetic pathway activity in the myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 162, 32-42.	1.9	6
2	Transient Cell Cycle Induction in Cardiomyocytes to Treat Subacute Ischemic Heart Failure. <i>Circulation</i> , 2022, 145, 1339-1355.	1.6	27
3	Metabolic Determinants of Cardiomyocyte Proliferation. <i>Stem Cells</i> , 2022, 40, 458-467.	3.2	16
4	Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism. <i>Nature Communications</i> , 2022, 13, 2051.	12.8	5
5	Metabolic signatures of pregnancy-induced cardiac growth. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 323, H146-H164.	3.2	8
6	Glutaminolysis is Essential for Myofibroblast Persistence and In Vivo Targeting Reverses Fibrosis and Cardiac Dysfunction in Heart Failure. <i>Circulation</i> , 2022, 145, 1625-1628.	1.6	15
7	Influence of biological sex and exercise on murine cardiac metabolism. <i>Journal of Sport and Health Science</i> , 2022, 11, 479-494.	6.5	8
8	Considerations for using isolated cell systems to understand cardiac metabolism and biology. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 153, 26-41.	1.9	8
9	Endothelial progenitor cells as critical mediators of environmental air pollution-induced cardiovascular toxicity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1440-H1455.	3.2	14
10	Fine particulate matter (PM _{2.5}) inhalation-induced alterations in the plasma lipidome as promoters of vascular inflammation and insulin resistance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1836-H1850.	3.2	27
11	Paraoxonase 2 Mediates Metabolic Reprogramming of Murine Tracheal Epithelial Cells in Response to the Quorum Sensing Molecule N-oxododecanoyl-homoserine Lactone. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
12	Cardiac PANK1 deletion exacerbates ventricular dysfunction during pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H784-H797.	3.2	6
13	Cell cycle induction in human cardiomyocytes is dependent on biosynthetic pathway activation. <i>Redox Biology</i> , 2021, 46, 102094.	9.0	14
14	Subclinical markers of cardiovascular toxicity of benzene inhalation in mice. <i>Toxicology and Applied Pharmacology</i> , 2021, 431, 115742.	2.8	6
15	Heart slice culture system reliably demonstrates clinical drug-related cardiotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2020, 406, 115213.	2.8	19
16	NHERF1 Loss Upregulates Enzymes of the Pentose Phosphate Pathway in Kidney Cortex. <i>Antioxidants</i> , 2020, 9, 862.	5.1	3
17	Transcription factor c-Maf is a checkpoint that programs macrophages in lung cancer. <i>Journal of Clinical Investigation</i> , 2020, 130, 2081-2096.	8.2	108
18	Bioenergetics and translational metabolism: implications for genetics, physiology and precision medicine. <i>Biological Chemistry</i> , 2019, 401, 3-29.	2.5	41

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19	Physiological Biomimetic Culture System for Pig and Human Heart Slices. <i>Circulation Research</i> , 2019, 125, 628-642.	4.5	60
20	Integration of flux measurements and pharmacological controls to optimize stable isotope-resolved metabolomics workflows and interpretation. <i>Scientific Reports</i> , 2019, 9, 13705.	3.3	18
21	Exercise Promotes Resolution of Acute Inflammation by Catecholamine-Mediated Stimulation of Resolvin D1 Biosynthesis. <i>Journal of Immunology</i> , 2019, 203, 3013-3022.	0.8	18
22	Mitochondrial calcium exchange links metabolism with the epigenome to control cellular differentiation. <i>Nature Communications</i> , 2019, 10, 4509.	12.8	93
23	A metabocentric view of cardiac remodeling. <i>Current Opinion in Physiology</i> , 2019, 10, 43-48.	1.8	6
24	Mitochondria-associated lactate dehydrogenase is not a biologically significant contributor to bioenergetic function in murine striated muscle. <i>Redox Biology</i> , 2019, 24, 101177.	9.0	15
25	Editorial: Mechanisms by Which Acute and Chronic Exercise Promote Cardiometabolic Health. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 159.	2.4	0
26	Glucose Metabolism Regulates Mitochondrial Supercomplex Abundance in Murine Heart. <i>FASEB Journal</i> , 2019, 33, .	0.5	0
27	High throughput measurement of metabolism in planarians reveals activation of glycolysis during regeneration. <i>Regeneration (Oxford, England)</i> , 2018, 5, 78-86.	6.3	29
28	TAK1 regulates skeletal muscle mass and mitochondrial function. <i>JCI Insight</i> , 2018, 3, .	5.0	38
29	Metabolic Mechanisms of Exercise-Induced Cardiac Remodeling. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 127.	2.4	56
30	Cardiac mesenchymal cells from diabetic mice are ineffective for cell therapy-mediated myocardial repair. <i>Basic Research in Cardiology</i> , 2018, 113, 46.	5.9	41
31	Glutathione <i>S</i> -transferase P deficiency induces glucose intolerance via JNK-dependent enhancement of hepatic gluconeogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1005-E1018.	3.5	14
32	Cardiac-specific overexpression of aldehyde dehydrogenase 2 exacerbates cardiac remodeling in response to pressure overload. <i>Redox Biology</i> , 2018, 17, 440-449.	9.0	13
33	Metabolic Coordination of Physiological and Pathological Cardiac Remodeling. <i>Circulation Research</i> , 2018, 123, 107-128.	4.5	232
34	Aldose reductase (AKR1B) deficiency promotes phagocytosis in bone marrow derived mouse macrophages. <i>Chemico-Biological Interactions</i> , 2017, 265, 16-23.	4.0	11
35	Analysis of stable isotope assisted metabolomics data acquired by high resolution mass spectrometry. <i>Analytical Methods</i> , 2017, 9, 2275-2283.	2.7	20
36	Systems characterization of differential plasma metabolome perturbations following thrombotic and non-thrombotic myocardial infarction. <i>Journal of Proteomics</i> , 2017, 160, 38-46.	2.4	15

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37	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. <i>Circulation</i> , 2017, 136, 2144-2157.	1.6	103
38	Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. <i>Biochemical Journal</i> , 2017, 474, 2785-2801.	3.7	55
39	Distribution based nearest neighbor imputation for truncated high dimensional data with applications to pre-clinical and clinical metabolomics studies. <i>BMC Bioinformatics</i> , 2017, 18, 114.	2.6	52
40	Circulating Prolidase Activity in Patients with Myocardial Infarction. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 50.	2.4	5
41	Identification of a plasma metabolomic signature of thrombotic myocardial infarction that is distinct from non-thrombotic myocardial infarction and stable coronary artery disease. <i>PLoS ONE</i> , 2017, 12, e0175591.	2.5	27
42	Distinct roles of TRAF6 and TAK1 in the regulation of adipocyte survival, thermogenesis program, and high-fat diet-induced obesity. <i>Oncotarget</i> , 2017, 8, 112565-112583.	1.8	16
43	FVB/NJ Mice Are a Useful Model for Examining Cardiac Adaptations to Treadmill Exercise. <i>Frontiers in Physiology</i> , 2016, 7, 636.	2.8	22
44	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 13634-13648.	3.4	35
45	CCR7 Maintains Nonresolving Lymph Node and Adipose Inflammation in Obesity. <i>Diabetes</i> , 2016, 65, 2268-2281.	0.6	32
46	Nuclear respiratory factor-1 and bioenergetics in tamoxifen-resistant breast cancer cells. <i>Experimental Cell Research</i> , 2016, 347, 222-231.	2.6	30
47	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
48	Vinyl Chloride Metabolites Potentiate Inflammatory Liver Injury Caused by LPS in Mice. <i>Toxicological Sciences</i> , 2016, 151, 312-323.	3.1	38
49	Glutamine Regulates Cardiac Progenitor Cell Metabolism and Proliferation. <i>Stem Cells</i> , 2015, 33, 2613-2627.	3.2	46
50	O-GlcNAcylation Negatively Regulates Cardiomyogenic Fate in Adult Mouse Cardiac Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2015, 10, e0142939.	2.5	6
51	Autophagic regulation of smooth muscle cell biology. <i>Redox Biology</i> , 2015, 4, 97-103.	9.0	78
52	Insights into an adipocyte whitening program. <i>Adipocyte</i> , 2015, 4, 75-80.	2.8	9
53	Genetic Deficiency of Glutathione <i>S</i> -Transferase P Increases Myocardial Sensitivity to Ischemia-Induced Reperfusion Injury. <i>Circulation Research</i> , 2015, 117, 437-449.	4.5	34
54	High glucose induces mitochondrial dysfunction independently of protein O-GlcNAcylation. <i>Biochemical Journal</i> , 2015, 467, 115-126.	3.7	39

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55	Bioenergetic differences between MCF-7 and T47D breast cancer cells and their regulation by oestradiol and tamoxifen. <i>Biochemical Journal</i> , 2015, 465, 49-61.	3.7	46
56	Insights Into Metabolic Remodeling of the Hypertrophic and Failing Myocardium. <i>Circulation: Heart Failure</i> , 2014, 7, 874-876.	3.9	2
57	Antiobesogenic Role of Endothelial Nitric Oxide Synthase. <i>Vitamins and Hormones</i> , 2014, 96, 323-346.	1.7	16
58	Impact of nutrient excess and endothelial nitric oxide synthase on the plasma metabolite profile in mice. <i>Frontiers in Physiology</i> , 2014, 5, 453.	2.8	22
59	Control of glutamine metabolism by the tumor suppressor Rb. <i>Oncogene</i> , 2014, 33, 556-566.	5.9	169
60	Redox regulation of antioxidants, autophagy, and the response to stress: Implications for electrophile therapeutics. <i>Free Radical Biology and Medicine</i> , 2014, 71, 196-207.	2.9	207
61	Metabolomic Analysis of Pressure-Overloaded and Infarcted Mouse Hearts. <i>Circulation: Heart Failure</i> , 2014, 7, 634-642.	3.9	181
62	Cardiomyocyte <i>OGT</i> is essential for postnatal viability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H142-H153.	3.2	78
63	Comprehensive measurement of respiratory activity in permeabilized cells using extracellular flux analysis. <i>Nature Protocols</i> , 2014, 9, 421-438.	12.0	259
64	Metabolic remodeling of white adipose tissue in obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E262-E277.	3.5	130
65	Regulation of obesity and insulin resistance by nitric oxide. <i>Free Radical Biology and Medicine</i> , 2014, 73, 383-399.	2.9	198
66	Hyperglycemia suppresses cardiomyocyte bioenergetic reserve independent of O ⁶ -GlcNAcylation (1155.5). <i>FASEB Journal</i> , 2014, 28, 1155.5.	0.5	0
67	Nutrient excess promotes accumulation of bone marrow-derived progenitor cells in adipose tissue (641.12). <i>FASEB Journal</i> , 2014, 28, 641.12.	0.5	0
68	TWEAK promotes exercise intolerance by decreasing skeletal muscle oxidative phosphorylation capacity. <i>Skeletal Muscle</i> , 2013, 3, 18.	4.2	30
69	Implications of autophagy for vascular smooth muscle cell function and plasticity. <i>Free Radical Biology and Medicine</i> , 2013, 65, 693-703.	2.9	86
70	Oxidized lipids activate autophagy in a JNK-dependent manner by stimulating the endoplasmic reticulum stress response. <i>Redox Biology</i> , 2013, 1, 56-64.	9.0	159
71	Utilization of fluorescent probes for the quantification and identification of subcellular proteomes and biological processes regulated by lipid peroxidation products. <i>Free Radical Biology and Medicine</i> , 2013, 59, 56-68.	2.9	20
72	Quercetin prevents left ventricular hypertrophy in the Apo E knockout mouse. <i>Redox Biology</i> , 2013, 1, 381-386.	9.0	29

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73	Mitochondrial fission induced by platelet-derived growth factor regulates vascular smooth muscle cell bioenergetics and cell proliferation. <i>Redox Biology</i> , 2013, 1, 542-551.	9.0	137
74	PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. <i>Biochemical Journal</i> , 2013, 451, 375-388.	3.7	175
75	Recent Advances in Mitochondrial Research. <i>Circulation Research</i> , 2013, 113, e107-10.	4.5	7
76	Protein <i>O</i> -GlcNAcylation Is a Novel Cytoprotective Signal in Cardiac Stem Cells. <i>Stem Cells</i> , 2013, 31, 765-775.	3.2	54
77	Skeletal Muscle Lipid Peroxidation and Insulin Resistance in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E1182-E1186.	3.6	53
78	Lipid Peroxidation Product 4-Hydroxy-trans-2-nonenal Causes Endothelial Activation by Inducing Endoplasmic Reticulum Stress. <i>Journal of Biological Chemistry</i> , 2012, 287, 11398-11409.	3.4	105
79	Standardized bioenergetic profiling of adult mouse cardiomyocytes. <i>Physiological Genomics</i> , 2012, 44, 1208-1213.	2.3	64
80	Overexpression of Endothelial Nitric Oxide Synthase Prevents Diet-Induced Obesity and Regulates Adipocyte Phenotype. <i>Circulation Research</i> , 2012, 111, 1176-1189.	4.5	134
81	Protein S-glutathiolation: Redox-sensitive regulation of protein function. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 559-567.	1.9	106
82	Integration of cellular bioenergetics with mitochondrial quality control and autophagy. <i>Biological Chemistry</i> , 2012, 393, 1485-1512.	2.5	376
83	Responses of hypertrophied myocytes to reactive species: implications for glycolysis and electrophile metabolism. <i>Biochemical Journal</i> , 2011, 435, 519-528.	3.7	26
84	Assessing bioenergetic function in response to oxidative stress by metabolic profiling. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1621-1635.	2.9	372
85	Mitogen-Mediated Autophagy Regulates Vascular Smooth Muscle Cell Phenotype. <i>Free Radical Biology and Medicine</i> , 2011, 51, S41-S42.	2.9	1
86	Bioenergetic function in cardiovascular cells: The importance of the reserve capacity and its biological regulation. <i>Chemico-Biological Interactions</i> , 2011, 191, 288-295.	4.0	134
87	Novel insights into the role of glucose metabolism in regulating vascular smooth muscle cell phenotype and proliferative capacity. <i>FASEB Journal</i> , 2011, 25, 1026.33.	0.5	1
88	Role of cellular bioenergetics in smooth muscle cell proliferation induced by platelet-derived growth factor. <i>Biochemical Journal</i> , 2010, 428, 255-267.	3.7	93
89	Regulation of vascular smooth muscle cell bioenergetic function by protein glutathiolation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 285-295.	1.0	78
90	Mitochondrial reserve capacity in endothelial cells: The impact of nitric oxide and reactive oxygen species. <i>Free Radical Biology and Medicine</i> , 2010, 48, 905-914.	2.9	290

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91	What Part of NO Don't You Understand? Some Answers to the Cardinal Questions in Nitric Oxide Biology. <i>Journal of Biological Chemistry</i> , 2010, 285, 19699-19704.	3.4	269
92	Measurement and Identification of S-Glutathiolated Proteins. <i>Methods in Enzymology</i> , 2010, 473, 179-197.	1.0	40
93	Protein O-GlcNAcylation: a new signaling paradigm for the cardiovascular system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H13-H28.	3.2	129
94	Beyond Reactive Oxygen Species. <i>Circulation Research</i> , 2009, 105, 1044-1046.	4.5	35
95	Methods for imaging and detecting modification of proteins by reactive lipid species. <i>Free Radical Biology and Medicine</i> , 2009, 47, 201-212.	2.9	32
96	Methods for the determination and quantification of the reactive thiol proteome. <i>Free Radical Biology and Medicine</i> , 2009, 47, 675-683.	2.9	84
97	Aldose reductase decreases endoplasmic reticulum stress in ischemic hearts. <i>Chemico-Biological Interactions</i> , 2009, 178, 242-249.	4.0	33
98	Importance of the bioenergetic reserve capacity in response to cardiomyocyte stress induced by 4-hydroxynonenal. <i>Biochemical Journal</i> , 2009, 424, 99-107.	3.7	246
99	Myocardial ischaemia inhibits mitochondrial metabolism of 4-hydroxy-trans-2-nonenal. <i>Biochemical Journal</i> , 2009, 417, 513-524.	3.7	44
100	Unsaturated lipid peroxidation-derived aldehydes activate autophagy in vascular smooth-muscle cells. <i>Biochemical Journal</i> , 2008, 410, 525-534.	3.7	155
101	Cardioprotection by N-Acetylglucosamine Linkage to Cellular Proteins. <i>Circulation</i> , 2008, 117, 1172-1182.	1.6	215
102	Cardiac Myocyte-Specific Expression of Inducible Nitric Oxide Synthase Protects Against Ischemia/Reperfusion Injury by Preventing Mitochondrial Permeability Transition. <i>Circulation</i> , 2008, 118, 1970-1978.	1.6	109
103	S-Nitrosation and thiol switching in the mitochondrion: a new paradigm for cardioprotection in ischaemic preconditioning. <i>Biochemical Journal</i> , 2008, 412, e11-e13.	3.7	20
104	Mechanisms of acrolein-induced myocardial dysfunction: implications for environmental and endogenous aldehyde exposure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3673-H3684.	3.2	92
105	Downregulation of CuZn-superoxide dismutase contributes to β -adrenergic receptor-mediated oxidative stress in the heart. <i>Cardiovascular Research</i> , 2007, 74, 445-455.	3.8	107
106	Role of glutathiolation in preservation, restoration and regulation of protein function. <i>IUBMB Life</i> , 2007, 59, 21-26.	3.4	44
107	The lipid peroxidation product 4-hydroxy-trans-2-nonenal (HNE) promotes unique ER stress responses. <i>FASEB Journal</i> , 2007, 21, A978.	0.5	0
108	Protein glutathiolation by nitric oxide: an intracellular mechanism regulating redox protein modification. <i>FASEB Journal</i> , 2006, 20, 1715-1717.	0.5	108