Michael V Berridge

List of Publications by Year
in descending order

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91 papers	7,206 citations	94433 37 h-index	56724 83 g-index
98 all docs	98 docs citations	98 times ranked	12939 citing authors

#	Article	IF	Citations
1	Tetrazolium dyes as tools in cell biology: New insights into their cellular reduction. Biotechnology Annual Review, 2005, 11, 127-152.	2.1	1,638
2	Characterization of the Cellular Reduction of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT): Subcellular Localization, Substrate Dependence, and Involvement of Mitochondrial Electron Transport in MTT Reduction. Archives of Biochemistry and Biophysics, 1993, 303, 474-482.	3.0	1,190
3	Mitochondrial Genome Acquisition Restores Respiratory Function and Tumorigenic Potential of Cancer Cells without Mitochondrial DNA. Cell Metabolism, 2015, 21, 81-94.	16.2	582
4	Superoxide produced by activated neutrophils efficiently reduces the tetrazolium salt, WST-1 to produce a soluble formazan: a simple colorimetric assay for measuring respiratory burst activation and for screening anti-inflammatory agents. Journal of Immunological Methods, 2000, 238, 59-68.	1.4	290
5	Functional Mitochondria in Health and Disease. Frontiers in Endocrinology, 2017, 8, 296.	3.5	219
6	Horizontal transfer of whole mitochondria restores tumorigenic potential in mitochondrial DNA-deficient cancer cells. ELife, 2017, 6, .	6.0	205
7	Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. Cell Metabolism, 2019, 29, 399-416.e10.	16.2	190
8	Cell surface oxygen consumption: A major contributor to cellular oxygen consumption in glycolytic cancer cell lines. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 170-177.	1.0	141
9	Induction of apoptosis by the marine sponge (Mycale) metabolites, mycalamide A and pateamine. Apoptosis: an International Journal on Programmed Cell Death, 2001, 6, 207-219.	4.9	99
10	Antitumor Activity of Bis-indole Derivatives. Journal of Medicinal Chemistry, 2008, 51, 4563-4570.	6.4	95
11	Cell surface oxygen consumption by mitochondrial gene knockout cells. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1656, 79-87.	1.0	94
12	The level of glycolytic metabolism in acute myeloid leukemia blasts at diagnosis is prognostic for clinical outcome. Journal of Leukocyte Biology, 2010, 89, 51-55.	3.3	90
13	Translation of Xenopus liver messenger RNA in Xenopus oocytes: Vitellogenin synthesis and conversion to yolk platelet proteins. Cell, 1976, 8, 283-297.	28.9	81
14	Rossinones A and B, Biologically Active Meroterpenoids from the Antarctic Ascidian, Aplidium species. Journal of Organic Chemistry, 2009, 74, 9195-9198.	3.2	81
15	Characterization of Polysomes from Xenopus Liver Synthesizing Vitellogenin and Translation of Vitellogenin and Albumin Messenger RNA's in vitro. FEBS Journal, 1976, 62, 161-171.	0.2	77
16	Trans-plasma membrane electron transport: A cellular assay for NADH- and NADPH-oxidase based on extracellular, superoxide-mediated reduction of the sulfonated tetrazolium salt WST-1. Protoplasma, 1998, 205, 74-82.	2.1	77
17	High-Capacity Redox Control at the Plasma Membrane of Mammalian Cells: Trans-Membrane, Cell Surface, and Serum NADH-Oxidases. Antioxidants and Redox Signaling, 2000, 2, 231-242.	5.4	76
18	Acute Regulation of Glucose Transport After Activation of Human Peripheral Blood Neutrophils by Phorbol Myristate Acetate, fMLP, and Granulocyte-Macrophage Colony-Stimulating Factor. Blood, 1998, 91, 649-655.	1.4	73

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19	E/Z-Rubrolide O, an Anti-inflammatory Halogenated Furanone from the New Zealand Ascidian Synoicum n. sp.. Journal of Natural Products, 2007, 70, 111-113.	3.0	70
20	Anti-inflammatory Thiazine Alkaloids Isolated from the New Zealand AscidianAplidiumsp.:Â Inhibitors of the Neutrophil Respiratory Burst in a Model of Gouty Arthritis. Journal of Natural Products, 2007, 70, 936-940.	3.0	68
21	The anti-cancer, anti-inflammatory and tuberculostatic activities of a series of 6,7-substituted-5,8-quinolinequinones. Bioorganic and Medicinal Chemistry, 2010, 18, 3238-3251.	3.0	68
22	Horizontal transfer of mitochondria between mammalian cells: beyond co-culture approaches. Current Opinion in Genetics and Development, 2016, 38, 75-82.	3.3	68
23	Kottamides Aâ^'D:Â Novel Bioactive Imidazolone-Containing Alkaloids from the New Zealand AscidianPycnoclavellakottae. Journal of Organic Chemistry, 2002, 67, 5402-5404.	3.2	63
24	Plasma Membrane Electron Transport: A New Target for Cancer Drug Development. Current Molecular Medicine, 2006, 6, 895-904.	1.3	59
25	Metabolic flexibility and cell hierarchy in metastatic cancer. Mitochondrion, 2010, 10, 584-588.	3.4	58
26	Anti-inflammatory Sesquiterpene-quinones from the New Zealand SpongeDysideacf.cristagalli. Journal of Natural Products, 2005, 68, 1431-1433.	3.0	56
27	Mitochondrial DNA in Tumor Initiation, Progression, and Metastasis: Role of Horizontal mtDNA Transfer. Cancer Research, 2015, 75, 3203-3208.	0.9	56
28	Translation of Xenopus vitellogenin mRNA during primary and secondary induction. Nature, 1978, 273, 401-403.	27.8	49
29	A New Biologically Active Malyngamide from a New Zealand Collection of the Sea HareBursatella leachii. Journal of Natural Products, 2002, 65, 630-631.	3.0	49
30	The role of mitochondrial electron transport in tumorigenesis and metastasis. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1454-1463.	2.4	47
31	The antiproliferative effects of phenoxodiol are associated with inhibition of plasma membrane electron transport in tumour cell lines and primary immune cells. Biochemical Pharmacology, 2007, 74, 1587-1595.	4.4	46
32	Orthidines Aâ€"E, tubastrine, 3,4-dimethoxyphenethyl-Î²-guanidine, and 1,14-sperminedihomovanillamide: potential anti-inflammatory alkaloids isolated from the New Zealand ascidian Aplidium orthium that act as inhibitors of neutrophil respiratory burst. Tetrahedron, 2008, 64, 5748-5755.	1.9	44
33	Intercellular Communication in Tumor Biology: A Role for Mitochondrial Transfer. Frontiers in Oncology, 2018, 8, 344.	2.8	44
34	Alternative assembly of respiratory complex II connects energy stress to metabolic checkpoints. Nature Communications, 2018, 9, 2221.	12.8	44
35	Mitochondrial Transfer from Astrocytes to Neurons following Ischemic Insult: Guilt by Association?. Cell Metabolism, 2016, 24, 376-378.	16.2	43
36	Multiple proteins with single activities or a single protein with multiple activities: The conundrum of cell surface NADH oxidoreductases. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 108-119.	1.0	42

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37	Cell-Surface NAD(P)H-Oxidase: Relationship to Trans-Plasma Membrane NADH-Oxidoreductase and a Potential Source of Circulating NADH-Oxidase. Antioxidants and Redox Signaling, 2000, 2, 277-288.	5.4	41
38	Synthesis and anti-inflammatory structureâ€“activity relationships of thiazineâ€“quinolineâ€“quinones: Inhibitors of the neutrophil respiratory burst in a model of acute gouty arthritis. Bioorganic and Medicinal Chemistry, 2008, 16, 9432-9442.	3.0	37
39	Mitochondrial geneâ€knockout (Ï⁰) cells: A versatile model for exploring the secrets of transâ€plasma membrane electron transport. BioFactors, 2004, 20, 213-220.	5.4	36
40	Metabolic reprogramming of mitochondrial respiration in metastatic cancer. Cancer and Metastasis Reviews, 2018, 37, 643-653.	5.9	36
41	Effects of Mitochondrial Gene Deletion on Tumorigenicity of Metastatic Melanoma: Reassessing the Warburg Effect. Rejuvenation Research, 2010, 13, 139-141.	1.8	35
42	Peloruside A enhances apoptosis in H-ras-transformed cells and is cytotoxic to proliferating T cells. Apoptosis: an International Journal on Programmed Cell Death, 2004, 9, 785-796.	4.9	34
43	High-intensity interval exercise increases humanin, a mitochondrial encoded peptide, in the plasma and muscle of men. Journal of Applied Physiology, 2020, 128, 1346-1354.	2.5	34
44	Targeting mitochondrial permeability in cancer drug development. Molecular Nutrition and Food Research, 2009, 53, 76-86.	3.3	32
45	Sodium sulfide selectively induces oxidative stress, DNA damage, and mitochondrial dysfunction and radiosensitizes glioblastoma (GBM) cells.. Redox Biology, 2019, 26, 101220.	9.0	32
46	An Antiproliferative Bis-prenylated Quinone from the New Zealand Brown Alga Perithalia capillaris. Journal of Natural Products, 2007, 70, 2042-2044.	3.0	31
47	Evidence for NAD(P)H:quinone oxidoreductase 1 (NQO1)-mediated quinone-dependent redox cycling via plasma membrane electron transport: A sensitive cellular assay for NQO1. Free Radical Biology and Medicine, 2010, 48, 421-429.	2.9	31
48	N-Glycosylation of glucose transporter-1 (Glut-1) is associated with increased transporter affinity for glucose in human leukemic cells. Leukemia Research, 1999, 23, 395-401.	0.8	30
49	The Î”133p53 isoform and its mouse analogue Î”122p53 promote invasion and metastasis involving pro-inflammatory molecules interleukin-6 and CCL2. Oncogene, 2016, 35, 4981-4989.	5.9	29
50	The Hemopoietic Growth Factor, Interleukin-3, Promotes Glucose Transport by Increasing the Specific Activity and Maintaining the Affinity for Glucose of Plasma Membrane Glucose Transporters. Journal of Biological Chemistry, 1997, 272, 17276-17282.	3.4	28
51	Distincttrans-plasma membrane redox pathways reduce cell-impermeable dyes in HeLa cells. Redox Report, 2004, 9, 302-306.	4.5	27
52	The mobility of mitochondria: Intercellular trafficking in health and disease. Clinical and Experimental Pharmacology and Physiology, 2017, 44, 15-20.	1.9	27
53	Mitochondrial transfer between cells: Methodological constraints in cell culture and animal models. Analytical Biochemistry, 2018, 552, 75-80.	2.4	25
54	The anti-cancer drug, phenoxodiol, kills primary myeloid and lymphoid leukemic blasts and rapidly proliferating T cells. Haematologica, 2009, 94, 928-934.	3.5	21

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55	Clathriol B, a New 14Î² Marine Sterol from the New Zealand Sponge Clathria lissosclera. Australian Journal of Chemistry, 2003, 56, 279.	0.9	20
56	Mitochondrial Genome Transfer to Tumor Cells Breaks The Rules and Establishes a New Precedent in Cancer Biology. Molecular and Cellular Oncology, 2018, 5, e1023929.	0.7	20
57	Regulation of glucose transport by interleukin-3 in growth factor-dependent and oncogene-transformed bone marrow-derived cell lines. Leukemia Research, 1997, 21, 609-618.	0.8	19
58	SMAD4 loss limits the vulnerability of pancreatic cancer cells to complex I inhibition via promotion of mitophagy. Oncogene, 2021, 40, 2539-2552.	5.9	18
59	An assay for the endonucleolytic cleavage of RNA to large oligonucleotides. Analytical Biochemistry, 1973, 53, 603-612.	2.4	15
60	The protein kinase C inhibitor, calphostin C, inhibits succinate-dependent mitochondrial reduction of MTT by a mechanism that does not involve protein kinase C. Biochemical and Biophysical Research Communications, 1992, 185, 806-811.	2.1	15
61	Glycolytic metabolism confers resistance to combined all-trans retinoic acid and arsenic trioxide-induced apoptosis in HL60Ï0 cells. Leukemia Research, 2008, 32, 327-333.	0.8	15
62	Plasma membrane electron transport inSaccharomyces cerevisiaedepends on the presence of mitochondrial respiratory subunits. FEMS Yeast Research, 2008, 8, 897-905.	2.3	15
63	Iterative sorting reveals CD133+ and CD133- melanoma cells as phenotypically distinct populations. BMC Cancer, 2016, 16, 726.	2.6	15
64	Cell Hierarchy, Metabolic Flexibility and Systems Approaches to Cancer Treatment. Current Pharmaceutical Biotechnology, 2013, 14, 289-299.	1.6	15
65	Evidence that cell survival is controlled by interleukin-3 independently of cell proliferation. Journal of Cellular Physiology, 1995, 163, 466-476.	4.1	14
66	Inhibition of trans-plasma membrane electron transport: A potential anti-leukemic strategy. Leukemia Research, 2010, 34, 1630-1635.	0.8	14
67	A new class of cell surface antigens. Quantitative absorption studies defining cell-lineage-specific antigens on hemopoietic cells.. Journal of Experimental Medicine, 1979, 150, 977-986.	8.5	13
68	The novel phloroglucinol PMT7 kills glycolytic cancer cells by blocking autophagy and sensitizing to nutrient stress. Journal of Cellular Biochemistry, 2011, 112, 1869-1879.	2.6	13
69	Mitochondrial Genome-Knockout Cells Demonstrate a Dual Mechanism of Action for the Electron Transport Complex I Inhibitor Mycothiazole. Marine Drugs, 2012, 10, 900-917.	4.6	13
70	Transforming oncogenes regulate glucose transport by increasing transporter affinity for glucose: Contrasting effects of oncogenes and heat stress in a murine marrow-derived cell line. Life Sciences, 1998, 63, 1887-1903.	4.3	12
71	Sphere formation reverses the metastatic and cancer stem cell phenotype of the murine mammary tumour 4T1, independently of the putative cancer stem cell marker Sca-1. Cancer Letters, 2012, 323, 20-28.	7.2	12
72	Distinct regulation of glucose transport by interleukin-3 and oncogenes in a murine bone marrow-derived cell line. Biochemical Pharmacology, 1999, 57, 387-396.	4.4	11

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73	Mitochondrial gene knockout HL60Ï0 cells show preferential differentiation into monocytes/macrophages. Leukemia Research, 2005, 29, 1163-1170.	0.8	11
74	Interaction of heme and hemeâ€“hemopexin with an extracellular oxidant system used to measure cell growth-associated plasma membrane electron transport. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1107-1117.	1.0	11
75	Vaccines adjuvanted with an NKT cell agonist induce effective T-cell responses in models of CNS lymphoma. Immunotherapy, 2020, 12, 395-406.	2.0	10
76	Differential effects of redoxâ€cycling and arylating quinones on transâ€plasma membrane electron transport. BioFactors, 2008, 34, 183-190.	5.4	9
77	Conserved Region of the Cytoplasmic Domain is not Essential for Erythropoietin-Dependent Growth. Growth Factors, 1995, 12, 263-276.	1.7	8
78	Bioenergetic and Metabolic Adaptation in Tumor Progression and Metastasis. Frontiers in Oncology, 2022, 12, 857686.	2.8	8
79	Anti-Leukemic Activity of Ubiquinone-Based Compounds Targeting Trans-plasma Membrane Electron Transport. Journal of Medicinal Chemistry, 2013, 56, 3168-3176.	6.4	6
80	Mitochondrial DNA Affects the Expression of Nuclear Genes Involved in Immune and Stress Responses in a Breast Cancer Model. Frontiers in Physiology, 2020, 11, 543962.	2.8	6
81	N,N-Bis(glycityl)amines as anti-cancer drugs. Bioorganic and Medicinal Chemistry, 2016, 24, 3932-3939.	3.0	5
82	Hemopoietic cell transformation is associated with failure to downregulate glucose uptake during the G2/M phase of the cell cycle. Experimental Cell Research, 2004, 293, 321-330.	2.6	4
83	Mitochondrial movement between mammalian cells: an emerging physiological phenomenon. , 2020, , 515-546.		4
84	Acute Regulation of Glucose Transport After Activation of Human Peripheral Blood Neutrophils by Phorbol Myristate Acetate, fMLP, and Granulocyte-Macrophage Colony-Stimulating Factor. Blood, 1998, 91, 649-655.	1.4	4
85	Tumor Cell Complexity and Metabolic Flexibility in Tumorigenesis and Metastasis. , 2015, , 23-43.		3
86	IL-3 induces apoptosis in a ras-transformed myeloid cell line. Apoptosis: an International Journal on Programmed Cell Death, 1999, 4, 71-80.	4.9	2
87	Plasma membrane redox and cancer drug development. BioFactors, 2008, 34, 181-182.	5.4	2
88	Mitochondria break through cellular boundaries. Aging, 2019, 11, 4308-4309.	3.1	1
89	Ceramides that Mediate Apoptosis Reduce Glucose Uptake and Transporter Affinity for Glucose in Human Leukaemic Cell Lines but Not in Neutrophils. Basic and Clinical Pharmacology and Toxicology, 2008, 86, 114-121.	0.0	0
90	A simple indirect colorimetric assay for measuring mitochondrial energy metabolism based on uncoupling sensitivity. Biochemistry and Biophysics Reports, 2020, 24, 100858.	1.3	0

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91	The Level of Glycolytic Metabolism of AML Blasts May Predict Drug Sensitivity and Prognosis in Patients with AML. Blood, 2008, 112, 4022-4022.	1.4	0