Mauro Degli Esposti

List of Publications by Year
in descending order

69 papers	4,568 citations	147566 31 h-index	114278 63 g-index
72 all docs	72 docs citations	72 times ranked	5463 citing authors

#	Article	IF	Citations
1	Inhibitors of NADHâ€“ubiquinone reductase: an overview. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 222-235.	0.5	453
2	Mitochondrial cytochrome b: evolution and structure of the protein. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1143, 243-271.	0.5	328
3	The Pro-Apoptotic Proteins, Bid and Bax, Cause a Limited Permeabilization of the Mitochondrial Outer Membrane That Is Enhanced by Cytosol. Journal of Cell Biology, 1999, 147, 809-822.	2.3	312
4	The contribution of mitochondrial respiratory complexes to the production of reactive oxygen species. , 2000, 32, 153-162.		238
5	The roles of Bid. Apoptosis: an International Journal on Programmed Cell Death, 2002, 7, 433-440.	2.2	192
6	CTP synthase 1 deficiency in humans reveals its central role in lymphocyte proliferation. Nature, 2014, 510, 288-292.	13.7	174
7	Mitochondrial membrane permeabilisation by Bax/Bak. Biochemical and Biophysical Research Communications, 2003, 304, 455-461.	1.0	172
8	Death receptor signals to the mitochondria. Cancer Biology and Therapy, 2004, 3, 1051-1057.	1.5	168
9	Bcl-2 and Mitochondrial Oxygen Radicals. Journal of Biological Chemistry, 1999, 274, 29831-29837.	1.6	160
10	Measuring mitochondrial reactive oxygen species. Methods, 2002, 26, 335-340.	1.9	153
11	Mitochondria and cells produce reactive oxygen species in virtual anaerobiosis: relevance to ceramide-induced apoptosis. FEBS Letters, 1998, 430, 338-342.	1.3	139
12	Cardiolipin and its metabolites move from mitochondria to other cellular membranes during death receptor-mediated apoptosis. Cell Death and Differentiation, 2004, 11, 1133-1145.	5.0	131
13	Proapoptotic Bid binds to monolysocardiolipin, a new molecular connection between mitochondrial membranes and cell death. Cell Death and Differentiation, 2003, 10, 1300-1309.	5.0	125
14	Bid, a Widely Expressed Proapoptotic Protein of the Bcl-2 Family, Displays Lipid Transfer Activity. Molecular and Cellular Biology, 2001, 21, 7268-7276.	1.1	124
15	Functional alterations of the mitochondrially encoded ND4 subunit associated with Leber's hereditary optic neuropathy. FEBS Letters, 1994, 352, 375-379.	1.3	119
16	The Interaction of Q Analogs, Particularly Hydroxydecyl Benzoquinone (Idebenone), with the Respiratory Complexes of Heart Mitochondria. Archives of Biochemistry and Biophysics, 1996, 330, 395-400.	1.4	101
17	The functional microbiome of arthropods. PLoS ONE, 2017, 12, e0176573.	1.1	101
18	A critical evaluation of the hydropathy profile of membrane proteins. FEBS Journal, 1990, 190, 207-219.	0.2	86

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19	Cellular damage signals promote sequential changes at the N-terminus and BH-1 domain of the pro-apoptotic protein Bak. Oncogene, 2001, 20, 7668-7676.	2.6	84
20	Membrane lipids and cell death: an overview. Chemistry and Physics of Lipids, 2004, 129, 133-160.	1.5	75
21	The mechanism of proton and electron transport in mitochondrial complex I. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1187, 116-120.	0.5	73
22	Post-translational Modification of Bid Has Differential Effects on Its Susceptibility to Cleavage by Caspase 8 or Caspase 3. Journal of Biological Chemistry, 2003, 278, 15749-15757.	1.6	67
23	Acetic Acid Bacteria Genomes Reveal Functional Traits for Adaptation to Life in Insect Guts. Genome Biology and Evolution, 2014, 6, 912-920.	1.1	66
24	Bioenergetic Evolution in Proteobacteria and Mitochondria. Genome Biology and Evolution, 2014, 6, 3238-3251.	1.1	60
25	Evolution of Mitochondria Reconstructed from the Energy Metabolism of Living Bacteria. PLoS ONE, 2014, 9, e96566.	1.1	52
26	Quenching of the intrinsic tryptophan fluorescence of mitochondrial ubiquinol-cytochrome-c reductase by the binding of ubiquinone. FEBS Journal, 1988, 171, 81-86.	0.2	49
27	Structure/function relationships in mitochondrial cytochrome b revealed by the kinetic and circular dichroic properties of two yeast inhibitor-resistant mutants. FEBS Journal, 1991, 199, 753-760.	0.2	45
28	Chapter 4 Assessing functional integrity of mitochondria in vitro and in vivo. Methods in Cell Biology, 2001, 65, 75-96.	0.5	42
29	Tumor Necrosis Factorâ€“Related Apoptosis-Inducing Ligand Alters Mitochondrial Membrane Lipids. Cancer Research, 2005, 65, 8286-8297.	0.4	40
30	The inhibition of proton translocation in the mitochondrial bc 1 region by dicyclohexylcarbodiimide. FEBS Letters, 1982, 147, 101-105.	1.3	37
31	Natural variation in the potency and binding sites of mitochondrial quinone-like inhibitors. Biochemical Society Transactions, 1994, 22, 209-213.	1.6	35
32	Alpha proteobacterial ancestry of the [Fe-Fe]-hydrogenases in anaerobic eukaryotes. Biology Direct, 2016, 11, 34.	1.9	33
33	Sequence and functional similarities between pro-apoptotic Bid and plant lipid transfer proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 331-340.	0.5	31
34	Circular dichroic spectroscopy of membrane haemoproteins. The molecular determinants of the dichroic properties of the b cytochromes in various ubiquinol:cytochrome c reductases. FEBS Journal, 1989, 182, 27-36.	0.2	30
35	Molecular Evolution of Cytochrome bd Oxidases across Proteobacterial Genomes. Genome Biology and Evolution, 2015, 7, 801-820.	1.1	30
36	Oxygen Reductases in Alphaproteobacterial Genomes: Physiological Evolution From Low to High Oxygen Environments. Frontiers in Microbiology, 2019, 10, 499.	1.5	30

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37	Pro-apoptotic effect of maize lipid transfer protein on mammalian mitochondria. Archives of Biochemistry and Biophysics, 2006, 445, 65-71.	1.4	28
38	Proton pumping of mitochondrial complex I: differential activation by analogs of ubiquinone. Journal of Bioenergetics and Biomembranes, 1997, 29, 71-80.	1.0	27
39	Antiphospholipid reactivity against cardiolipin metabolites occurring during endothelial cell apoptosis. Arthritis Research and Therapy, 2006, 8, R180.	1.6	25
40	Effect of antimycin on the rapid reduction of cytochromec1in thebc1region of the mitochondrial respiratory chain. FEBS Letters, 1982, 142, 49-53.	1.3	24
41	Fas Death Receptor Enhances Endocytic Membrane Traffic Converging into the Golgi Region. Molecular Biology of the Cell, 2009, 20, 600-615.	0.9	24
42	Altered Traffic of Cardiolipin during Apoptosis: Exposure on the Cell Surface as a Trigger for â€œAntiphospholipid Antibodiesâ€. Journal of Immunology Research, 2015, 2015, 1-9.	0.9	24
43	A Journey across Genomes Uncovers the Origin of Ubiquinone in Cyanobacteria. Genome Biology and Evolution, 2017, 9, 3039-3053.	1.1	24
44	On the oxidation pathways of the mitochondrial bc1 complex from beef heart. Effects of various inhibitors. FEBS Journal, 1986, 160, 547-555.	0.2	22
45	6-Thienyl and 6-phenylimidazo[2,1-b]thiazoles as inhibitors of mitochondrial NADH dehydrogenase. European Journal of Medicinal Chemistry, 1999, 34, 883-889.	2.6	21
46	Candidatus Dactylopiibacterium carminicum, a Nitrogen-Fixing Symbiont of Dactylopius Cochineal Insects (Hemiptera: Coccoidea: Dactylopiidae). Genome Biology and Evolution, 2017, 9, 2237-2250.	1.1	19
47	Genome Analysis of Structureâ€"Function Relationships in Respiratory Complex I, an Ancient Bioenergetic Enzyme. Genome Biology and Evolution, 2016, 8, 126-147.	1.1	18
48	Bid binding to negatively charged phospholipids may not be required for its pro-apoptotic activity in vivo. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 997-1010.	1.2	16
49	Thienylimidazo[2,1-b]thiazoles as Inhibitors of Mitochondrial NADH Dehydrogenase. Journal of Medicinal Chemistry, 1995, 38, 1090-1097.	2.9	14
50	Late Mitochondrial Acquisition, Really?. Genome Biology and Evolution, 2016, 8, 2031-2035.	1.1	12
51	A survey of the energy metabolism of nodulating symbionts reveals a new form of respiratory complex I. FEMS Microbiology Ecology, 2016, 92, fiw084.	1.3	12
52	Chapter Twentyâ€One Organelle Intermixing and Membrane Scrambling in Cell Death. Methods in Enzymology, 2008, 442, 421-438.	0.4	11
53	Current phylogeny of Rhodospirillaceae: A multi-approach study. Molecular Phylogenetics and Evolution, 2019, 139, 106546.	1.2	10
54	On the evolution of cytochrome oxidases consuming oxygen. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148304.	0.5	9

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55	Respiratory Heme A-Containing Oxidases Originated in the Ancestors of Iron-Oxidizing Bacteria. Frontiers in Microbiology, 2021, 12, 664216.	1.5	9
56	New Alphaproteobacteria Thrive in the Depths of the Ocean with Oxygen Gradient. Microorganisms, 2022, 10, 455.	1.6	9
57	The mitochondrial battlefield and membrane lipids during cell death signalling. Italian Journal of Biochemistry, 2003, 52, 43-50.	0.3	8
58	Inhibition of the mitochondrial bc 1 complex by dibromothymoquinone. FEBS Letters, 1983, 156, 15-19.	1.3	7
59	Mitochondrial involvement in sensory neuronal cell death and survival. Experimental Brain Research, 2012, 221, 357-367.	0.7	7
60	Inhibition of Mitochondrial Oxidative Phosphorylation Induces Hyper-Expression of Glutamic Acid Decarboxylase in Pancreatic Islet Cells. Autoimmunity, 1999, 30, 43-51.	1.2	6
61	Effect of ubiquinone extraction on the reaction of the mitochondrialbc 1 complex with ferricyanide. Journal of Bioenergetics and Biomembranes, 1985, 17, 283-294.	1.0	5
62	The long story of mitochondrial DNA and respiratory complex I. Frontiers in Bioscience - Landmark, 2017, 22, 722-731.	3.0	5
63	A clarification of the effects of DCCD on the electron transfer and antimycin binding of the mitochondrialbc 1 complex. Journal of Bioenergetics and Biomembranes, 1985, 17, 109-121.	1.0	4
64	New Insights on Rotenone Resistance of Complex I Induced by the m.11778G>A/MT-ND4 Mutation Associated with Leberâ€™s Hereditary Optic Neuropathy. Molecules, 2022, 27, 1341.	1.7	3
65	From Alphaproteobacteria to Proto-Mitochondria. , 2018, , 166-203.		2
66	Cellular damage signals promote sequential changes at the N-terminus and BH-1 domain of the pro-apoptotic protein Bak. , 0, .		1
67	Ubiquinone and inhibitors sites in complex I: one, two or three?. Biochemical Society Transactions, 1999, 27, A83-A83.	1.6	0
68	Recent Developments on Bacterial Evolution into Eukaryotic Cells. , 2016, , 187-202.		0
69	Mitochondria: Where Are They Coming From?. , 2018, , 11-17.		0