Daniela Valenti

List of Publications by Year
in descending order

52 papers	2,892 citations	159585 30 h-index	175258 52 g-index
52 all docs	52 docs citations	52 times ranked	3833 citing authors

#	Article	IF	Citations
1	Production of Reactive Oxygen Species, Alteration of Cytosolic Ascorbate Peroxidase, and Impairment of Mitochondrial Metabolism Are Early Events in Heat Shock-Induced Programmed Cell Death in Tobacco Bright-Yellow 2 Cells. Plant Physiology, 2004, 134, 1100-1112.	4.8	361
2	Cytochrome c Is Released in a Reactive Oxygen Species-Dependent Manner and Is Degraded via Caspase-Like Proteases in Tobacco Bright-Yellow 2 Cells en Route to Heat Shock-Induced Cell Death. Plant Physiology, 2006, 141, 208-219.	4.8	197
3	Mitochondrial dysfunction as a central actor in intellectual disability-related diseases: An overview of Down syndrome, autism, Fragile X and Rett syndrome. Neuroscience and Biobehavioral Reviews, 2014, 46, 202-217.	6.1	151
4	Mitochondria and <scp>l</scp>â€lactate metabolism. FEBS Letters, 2008, 582, 3569-3576.	2.8	139
5	Epigallocatechin-3-gallate prevents oxidative phosphorylation deficit and promotes mitochondrial biogenesis in human cells from subjects with Down's syndrome. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 542-552.	3.8	124
6	Mitochondrial respiratory chain Complexes I and IV are impaired by Î²-amyloid via direct interaction and through Complex I-dependent ROS production, respectively. Mitochondrion, 2013, 13, 298-311.	3.4	117
7	Deficit of complexÂI activity in human skin fibroblasts with chromosome 21 trisomy and overproduction of reactive oxygen species by mitochondria: involvement of the cAMP/PKA signalling pathway. Biochemical Journal, 2011, 435, 679-688.	3.7	115
8	The polyphenols resveratrol and epigallocatechin-3-gallate restore the severe impairment of mitochondria in hippocampal progenitor cells from a Down syndrome mouse model. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1093-1104.	3.8	96
9	3â€²-Azido-3â€²-deoxythymidine uptake into isolated rat liver mitochondria and impairment of ADP/ATP translocator. Biochemical Pharmacology, 1997, 53, 913-920.	4.4	85
10	The riboflavin/FAD cycle in rat liver mitochondria. FEBS Journal, 2000, 267, 4888-4900.	0.2	81
11	The role of mitochondrial transport in energy metabolism. Mitochondrion, 2003, 2, 319-343.	3.4	80
12	Mitochondria as pharmacological targets in Down syndrome. Free Radical Biology and Medicine, 2018, 114, 69-83.	2.9	79
13	Impairment of F1F0-ATPase, adenine nucleotide translocator and adenylate kinase causes mitochondrial energy deficit in human skin fibroblasts with chromosome 21 trisomy. Biochemical Journal, 2010, 431, 299-310.	3.7	76
14	Mechanisms of toxicity of 3â€²-azido-3â€²- deoxythymidine. Biochemical Pharmacology, 1994, 48, 1405-1412.	4.4	68
15	Mitochondrial free radical overproduction due to respiratory chain impairment in the brain of a mouse model of Rett syndrome: protective effect of CNF1. Free Radical Biology and Medicine, 2015, 83, 167-177.	2.9	65
16	Down syndrome: Neurobiological alterations and therapeutic targets. Neuroscience and Biobehavioral Reviews, 2019, 98, 234-255.	6.1	63
17	Mitochondria as Cell Targets of AZT (Zidovudine). General Pharmacology, 1998, 31, 531-538.	0.7	61
18	Mitochondria Can Cross Cell Boundaries: An Overview of the Biological Relevance, Pathophysiological Implications and Therapeutic Perspectives of Intercellular Mitochondrial Transfer. International Journal of Molecular Sciences, 2021, 22, 8312.	4.1	61

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19	Negative modulation of mitochondrial oxidative phosphorylation by epigallocatechin-3 gallate leads to growth arrest and apoptosis in human malignant pleural mesothelioma cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2085-2096.	3.8	56
20	Plant polyphenols as natural drugs for the management of Down syndrome and related disorders. Neuroscience and Biobehavioral Reviews, 2016, 71, 865-877.	6.1	49
21	l-Lactate transport into rat heart mitochondria and reconstruction of the l-lactate/pyruvate shuttle. Biochemical Journal, 2002, 364, 101-104.	3.7	43
22	Stimulation of the brain serotonin receptor 7 rescues mitochondrial dysfunction in female mice from two models of Rett syndrome. Neuropharmacology, 2017, 121, 79-88.	4.1	43
23	Modulation of Rho GTPases rescues brain mitochondrial dysfunction, cognitive deficits and aberrant synaptic plasticity in female mice modeling Rett syndrome. European Neuropsychopharmacology, 2015, 25, 889-901.	0.7	41
24	Inhibition by Î±-Tocopherol and L-Ascorbate of Linoleate Hydroperoxidation and Î²-Carotene Bleaching Activities in Durum Wheat Semolina. Journal of Cereal Science, 2000, 31, 41-54.	3.7	40
25	Inhibition of Drp1-mediated mitochondrial fission improves mitochondrial dynamics and bioenergetics stimulating neurogenesis in hippocampal progenitor cells from a Down syndrome mouse model. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 3117-3127.	3.8	37
26	Partial reconstruction of in vitro gluconeogenesis arising from mitochondrial l-lactate uptake/metabolism and oxaloacetate export via novel l-lactate translocators. Biochemical Journal, 2004, 380, 231-242.	3.7	36
27	Proteasome function is required for activation of programmed cell death in heat shocked tobacco Bright-Yellow 2 cells. FEBS Letters, 2007, 581, 917-922.	2.8	35
28	Estrogen receptor Î² activation impairs mitochondrial oxidative metabolism and affects malignant mesothelioma cell growth in vitro and in vivo. Oncogenesis, 2013, 2, e72-e72.	4.9	34
29	3-Bromopyruvate induces rapid human prostate cancer cell death by affecting cell energy metabolism, GSH pool and the glyoxalase system. Journal of Bioenergetics and Biomembranes, 2015, 47, 493-506.	2.3	34
30	Two separate pathways for d-lactate oxidation by Saccharomyces cerevisiae mitochondria which differ in energy production and carrier involvement. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1608, 104-113.	1.0	31
31	Green tea EGCG plus fish oil omega-3 dietary supplements rescue mitochondrial dysfunctions and are safe in a Down's syndrome child. Clinical Nutrition, 2015, 34, 783-784.	5.0	31
32	Transport and metabolism of d-lactate in Jerusalem artichoke mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 13-22.	1.0	30
33	Aberrant mitochondrial bioenergetics in the cerebral cortex of the Fmr1 knockout mouse model of fragile X syndrome. Biological Chemistry, 2020, 401, 497-503.	2.5	30
34	In the early phase of programmed cell death in Tobacco Bright Yellow 2 cells the mitochondrial adenine nucleotide translocator, adenylate kinase and nucleoside diphosphate kinase are impaired in a reactive oxygen species-dependent manner. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 66-78.	1.0	29
35	<scp>l</scp>â€Lactate generates hydrogen peroxide in purified rat liver mitochondria due to the putative <scp>l</scp>â€lactate oxidase localized in the intermembrane space. FEBS Letters, 2010, 584, 2285-2290.	2.8	28
36	Inhibition of nucleoside diphosphate kinase in rat liver mitochondria by added 3â€²-azido-3â€²-deoxythymidine. FEBS Letters, 1999, 444, 291-295.	2.8	26

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37	Rescue of prepulse inhibition deficit and brain mitochondrial dysfunction by pharmacological stimulation of the central serotonin receptor 7 in a mouse model of CDKL5 Deficiency Disorder. Neuropharmacology, 2019, 144, 104-114.	4.1	25
38	Inhibition of phosphate transport in rat heart mitochondria by 3â€²-azido-3â€²-deoxythymidine due to stimulation of superoxide anion mitochondrial production. Biochemical Pharmacology, 2002, 64, 201-206.	4.4	24
39	Preservation of mitochondrial functional integrity in mitochondria isolated from small cryopreserved mouse brain areas. Analytical Biochemistry, 2014, 444, 25-31.	2.4	22
40	Activation of the Calcium-Sensing Receptor Corrects the Impaired Mitochondrial Energy Status Observed in Renal Polycystin-1 Knockdown Cells Modeling Autosomal Dominant Polycystic Kidney Disease. Frontiers in Molecular Biosciences, 2018, 5, 77.	3.5	17
41	The Anti-Diabetic Drug Metformin Rescues Aberrant Mitochondrial Activity and Restrains Oxidative Stress in a Female Mouse Model of Rett Syndrome. Journal of Clinical Medicine, 2020, 9, 1669.	2.4	17
42	A transient proteasome activation is needed for acetic acid-induced programmed cell death to occur in Saccharomyces cerevisiae. FEMS Yeast Research, 2008, 8, 400-404.	2.3	16
43	Rat liver mitochondria can hydrolyse thiamine pyrophosphate to thiamine monophosphate which can cross the mitochondrial membrane in a carrier-mediated process. FEBS Letters, 1998, 435, 6-10.	2.8	15
44	A sensitive method to assay the xanthine oxidase activity in primary cultures of cerebellar granule cells. Brain Research Protocols, 2000, 6, 1-5.	1.6	15
45	Epigallocatechin-3-Gallate Plus Omega-3 Restores the Mitochondrial Complex I and F0F1-ATP Synthase Activities in PBMCs of Young Children with Down Syndrome: A Pilot Study of Safety and Efficacy. Antioxidants, 2021, 10, 469.	5.1	15
46	A Walk in the Memory, from the First Functional Approach up to Its Regulatory Role of Mitochondrial Bioenergetic Flow in Health and Disease: Focus on the Adenine Nucleotide Translocator. International Journal of Molecular Sciences, 2021, 22, 4164.	4.1	14
47	Impaired Brain Mitochondrial Bioenergetics in the Ts65Dn Mouse Model of Down Syndrome Is Restored by Neonatal Treatment with the Polyphenol 7,8-Dihydroxyflavone. Antioxidants, 2022, 11, 62.	5.1	12
48	Jerusalem artichoke mitochondria can export reducing equivalents in the form of malate as a result of d-lactate uptake and metabolism. Biochemical and Biophysical Research Communications, 2005, 335, 1224-1230.	2.1	10
49	Phosphoenolpyruvate metabolism in Jerusalem artichoke mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 281-294.	1.0	10
50	Treatment with the Bacterial Toxin CNF1 Selectively Rescues Cognitive and Brain Mitochondrial Deficits in a Female Mouse Model of Rett Syndrome Carrying a MeCP2-Null Mutation. International Journal of Molecular Sciences, 2021, 22, 6739.	4.1	5
51	Brain-Immune Alterations and Mitochondrial Dysfunctions in a Mouse Model of Paediatric Autoimmune Disorder Associated with Streptococcus: Exacerbation by Chronic Psychosocial Stress. Journal of Clinical Medicine, 2019, 8, 1514.	2.4	2
52	Mitochondrial Bioenergetics in Different Pathophysiological Conditions 2.0. International Journal of Molecular Sciences, 2022, 23, 5552.	4.1	1